



STIC Search Report

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TO: Rei-Tsang Shiao
Location: 5a10 / 5c18
Art Unit: 1626
Thursday, July 22, 2004

Case Serial Number: 09/748006

From: Noble Jarrell
Location: Biotech-Chem Library
Rem 1B71
Phone: 272-2556

Noble.jarrell@uspto.gov

Search Notes

Jan Delavack
for search

127835

Access DB#

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Robert (Rob) Shion Examiner #: 7952 Date: 7/2/04
Art Unit: 1626 Phone Number: 2-0707 Serial Number: 09/748006
Mail Box and Bldg Room Location: _____ Results Format Preferred (check): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

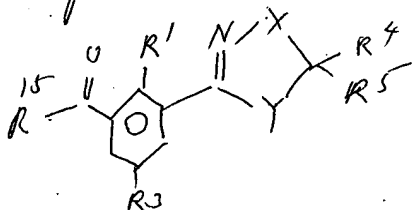
Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or unity of the invention. Define any terms that may have a special meaning. Give examples of relevant citations, authors, etc., if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: 3-heterocyclyl-substituted Benzyl derivative
Inventors (please provide full names): Deyn et al

Earliest Priority Filing Date: _____

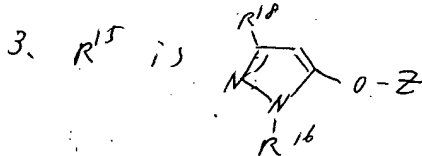
For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

7 search cpd Z



1. X is, O, S, N, CO, C

2. Y is O, S, N, CO



Z is SO₂R¹⁷

R¹, R⁵, R¹⁶, R¹⁸, R¹⁷ are sub.

II proven for making composition comprising cpd Z

III methods of use of cpd Z

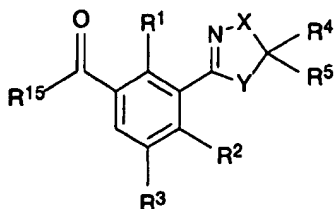
STAFF USE ONLY

Searcher: <u>Noble</u>	Type of Search	Vendors and cost where applicable
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Searcher Location: _____	AA Sequence (#) _____	Dialog _____
Date Searched Picked Up: _____	Structure (#) _____	Questel/Orbit _____
Date Completed: <u>7/2/04</u>	Bibliographic _____	Dr. Link _____
Searcher Prep & Review Time: <u>20</u>	Litigation _____	Lexis/Nexis _____
Clerical Prep Time: _____	Fulltext _____	Sequence Systems _____
Online Time: <u>20</u>	Patent Family _____	WWW/Internet _____
	Other _____	Other (specify) _____

APPENDIX I:

THE LISTING OF CLAIMS (version with markings):

1. (currently amended) A 3-heterocyclyl-substituted benzoyl compound of formula I



where the variables have the following meanings:

R¹, R² are hydrogen, nitro, halogen, cyano, C₁-C₆-alkyl, C₁-C₆-haloalkyl, C₁-C₆-alkoxy, C₁-C₆-haloalkoxy, C₁-C₆-alkylthio, C₁-C₆-haloalkylthio, C₁-C₆-alkylsulfinyl, C₁-C₆-haloalkylsulfinyl, C₁-C₆-alkylsulfonyl or C₁-C₆-haloalkylsulfonyl;

R³ is hydrogen, halogen or C₁-C₆-alkyl;

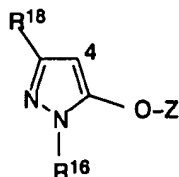
R⁴, R⁵ are hydrogen, halogen, cyano, nitro, C₁-C₄-alkyl, C₁-C₄-alkoxy-C₁-C₄-alkyl, di(C₁-C₄-alkoxy)-C₁-C₄-alkyl, di(C₁-C₄-alkyl)-amino-C₁-C₄-alkyl, [2,2-di(C₁-C₄-alkyl)-1-hydrazino]-C₁-C₄-alkyl, C₁-C₆-alkyliminoxy-C₁-C₄-alkyl, C₁-C₄-alkoxycarbonyl-C₁-C₄-alkyl, C₁-C₄-alkylthio-C₁-C₄-alkyl, C₁-C₄-haloalkyl, C₁-C₄-cyanoalkyl, C₃-C₈-cycloalkyl, C₁-C₄-alkoxy, C₁-C₄-alkoxy-C₂-C₄-alkoxy, C₁-C₄-haloalkoxy, hydroxyl, C₁-C₄-alkylcarbonyloxy, C₁-C₄-alkylthio, C₁-C₄-haloalkylthio, di(C₁-C₄-alkyl)amino, COR⁶, phenyl or benzyl, it being possible for the two last-mentioned substituents to be fully or partially halogenated and/or to have attached to them one to three of the following groups: nitro, cyano, C₁-C₄-alkyl, C₁-C₄-haloalkyl, C₁-C₄-alkoxy or C₁-C₄-haloalkoxy; or

R⁴ and R⁵ together form a C₂-C₆-alkanediyl chain which can be mono- to tetrasubstituted by C₁-C₄-alkyl and/or which can be interrupted by oxygen or by a nitrogen which is unsubstituted or substituted by C₁-C₄-alkyl; or

R⁴ and R⁵ together with the corresponding carbon form a carbonyl or thiocarbonyl group;

R⁶ is hydrogen, C₁-C₄-alkyl, C₁-C₄-haloalkyl, C₁-C₄-alkoxy, C₁-C₄-alkoxy-C₂-C₄-alkoxy, C₁-C₄-haloalkoxy, C₃-C₆-alkenyloxy, C₃-C₆-alkynyloxy or NR⁷R⁸;

- R^7 is hydrogen or C_1 - C_4 -alkyl;
 R^8 is C_1 - C_4 -alkyl;
 X is O, S, NR^9 , CO or $CR^{10}R^{11}$;
 Y is O, S, NR^{12} or CO;
 R^9 , R^{12} are hydrogen or C_1 - C_4 -alkyl;
 R^{10} , R^{11} are hydrogen, C_1 - C_4 -alkyl, C_1 - C_4 -haloalkyl, C_1 - C_4 -alkoxy-carbonyl, C_1 - C_4 -haloalkoxycarbonyl or $CONR^7R^8$; or
 R^4 and R^9 or R^4 and R^{10} or R^5 and R^{12} together form a C_2 - C_6 -alkane-diyl chain which can be mono- to tetrasubstituted by C_1 - C_4 -alkyl and/or interrupted by oxygen or by a nitrogen which is unsubstituted or substituted by C_1 - C_4 -alkyl;
 R^{15} is a pyrazole of the formula II which is linked in the 4-position



where

R^{16} is C_1 - C_6 -alkyl;

Z is $[H-\text{or}] SO_2R^{17}$;

R^{17} is C_1 - C_4 -alkyl, C_1 - C_4 -haloalkyl, phenyl or phenyl which is partially or fully halogenated and/or has attached to it one to three of the following groups: nitro, cyano, C_1 - C_4 -alkyl, C_1 - C_4 -haloalkyl, C_1 - C_4 -alkoxy or C_1 - C_4 -haloalkoxy;

R^{18} is hydrogen or C_1 - C_6 -alkyl;

where X and Y are not simultaneously sulfur;

~~[with the exception of]~~

~~[4-{2-chloro-3-(4,5-dihydrothiazol-2-yl)-4-methylsulfonylbenzoyl}-1,3-dimethyl-5-hydroxy-1H-pyrazole and]~~

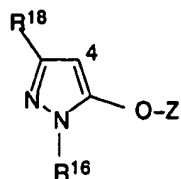
~~[4-{2-chloro-3-(thiazoline-4,5-dione-2-yl)-4-methylsulfonylbenzoyl}-1,3-dimethyl-5-hydroxy-1H-pyrazole,]~~

or an agriculturally useful salt thereof.

2. (currently amended) A 3-heterocycl-yl-substituted benzoyl compound of formula I as claimed in claim 1, where the variables have the following meanings:

- R^1 , R^2 are hydrogen, nitro, halogen, cyano, C_1 - C_6 -alkyl, C_1 - C_6 -haloalkyl, C_1 - C_6 -alkoxy, C_1 - C_6 -haloalkoxy, C_1 - C_6 -alkylthio, C_1 - C_6 -haloalkylthio, C_1 - C_6 -alkylsulfinyl, C_1 - C_6 -haloalkylsulfinyl, C_1 - C_6 -alkylsulfonyl or C_1 - C_6 -haloalkylsulfonyl;
- R^3 is hydrogen, halogen or C_1 - C_6 -alkyl;
- R^4 , R^5 are hydrogen, halogen, cyano, nitro, C_1 - C_4 -alkyl, C_1 - C_4 -alkoxy- C_1 - C_4 -alkyl, $di(C_1$ - C_4 -alkoxy)- C_1 - C_4 -alkyl, $di(C_1$ - C_4 -alkyl)-amino- C_1 - C_4 -alkyl, $[2,2-di(C_1$ - C_4 -alkyl)-1-hydrazino]- C_1 - C_4 -alkyl, C_1 - C_6 -alkyliminoxy- C_1 - C_4 -alkyl, C_1 - C_4 -alkoxycarbonyl- C_1 - C_4 -alkyl, C_1 - C_4 -alkylthio- C_1 - C_4 -alkyl, C_1 - C_4 -haloalkyl, C_1 - C_4 -cyanoalkyl, C_3 - C_8 -cycloalkyl, C_1 - C_4 -alkoxy, C_1 - C_4 -alkoxy- C_2 - C_4 -alkoxy, C_1 - C_4 -haloalkoxy, C_1 - C_4 -alkylthio, C_1 - C_4 -haloalkylthio, $di(C_1$ - C_4 -alkyl)amino, COR^6 , phenyl or benzyl, it being possible for the two last-mentioned substituents to be fully or partially halogenated and/or to have attached to them one to three of the following groups: nitro, cyano, C_1 - C_4 -alkyl, C_1 - C_4 -haloalkyl, C_1 - C_4 -alkoxy or C_1 - C_4 -haloalkoxy; or
- R^4 and R^5 together form a C_2 - C_6 -alkanediyl chain which can be mono- to tetrasubstituted by C_1 - C_4 -alkyl and/or which can be interrupted by oxygen or by a nitrogen which is unsubstituted or substituted by C_1 - C_4 -alkyl; or
- R^4 and R^5 together with the corresponding carbon form a carbonyl or thiocarbonyl group;
- R^6 is C_1 - C_4 -alkyl, C_1 - C_4 -haloalkyl, C_1 - C_4 -alkoxy, C_1 - C_4 -alkoxy- C_2 - C_4 -alkoxy, C_1 - C_4 -haloalkoxy, C_3 - C_6 -alkenyloxy, C_3 - C_6 -alkynyloxy or NR^7R^8 ;
- R^7 is hydrogen or C_1 - C_4 -alkyl;
- R^8 is C_1 - C_4 -alkyl;
- X is O, S, NR^9 , CO or $CR^{10}R^{11}$;
- Y is O, S, NR^{12} or CO;
- R^9 , R^{12} are hydrogen or C_1 - C_4 -alkyl;
- R^{10} , R^{11} are hydrogen, C_1 - C_4 -alkyl, C_1 - C_4 -haloalkyl, C_1 - C_4 -alkoxycarbonyl, C_1 - C_4 -haloalkoxycarbonyl or $CONR^7R^8$; or
- R^4 and R^9 or R^4 and R^{10} or R^5 and R^{12} together form a C_2 - C_6 -alkane-diyl chain which can be mono- to tetrasubstituted by C_1 - C_4 -alkyl and/or interrupted by oxygen or by a nitrogen which is unsubstituted or substituted by C_1 - C_4 -alkyl;

R¹⁵ is a pyrazole of the formula II which is linked in the 4-position



II

where

R¹⁶ is C₁-C₆-alkyl;

Z is [H or] SO₂R¹⁷;

R¹⁷ is C₁-C₄-alkyl, C₁-C₄-haloalkyl, phenyl or phenyl which is partially or fully halogenated and/or has attached to it one to three of the following groups: nitro, cyano, C₁-C₄-alkyl, C₁-C₄-haloalkyl, C₁-C₄-alkoxy or C₁-C₄-haloalkoxy;

R¹⁸ is hydrogen or C₁-C₆-alkyl;

where X and Y are not simultaneously sulfur;

~~[with the exception of]~~

~~[4-{2-chloro-3-(4,5-dihydrothiazol-2-yl)-4-methylsulfonylbenzoyl}-1,3-dimethyl-5-hydroxy-1H-pyrazole and]~~

~~[4-{2-chloro-3-(thiazoline-4,5-dione-2-yl)-4-methylsulfonylbenzoyl}-1,3-dimethyl-5-hydroxy-1H-pyrazole]~~

or an agriculturally useful salt thereof.

3. (previously presented) A 3-heterocycl-yl-substituted benzoyl compound of formula I as claimed in claim 1 or 2, where R³ is hydrogen.
4. (previously presented) A 3-heterocycl-yl-substituted benzoyl compound of formula I as claimed in claim 1 or 2, where
R¹, R² are nitro, halogen, cyano, C₁-C₆-alkyl, C₁-C₆-haloalkyl, C₁-C₆-alkoxy, C₁-C₆-haloalkoxy, C₁-C₆-alkylthio, C₁-C₆-haloalkylthio, C₁-C₆-alkylsulfinyl, C₁-C₆-haloalkylsulfinyl, C₁-C₆-alkylsulfonyl or C₁-C₆-haloalkylsulfonyl.
5. (canceled)
6. (canceled)
7. (canceled)
8. (previously presented) A 3-heterocycl-yl-substituted benzoyl compound of formula I as claimed in claim 1 or 2, where



Preparation examples:

- 5 4-[2-Chloro-3-(4,5-dihydroisoxazol-3-yl)-4-methylsulfonyl-benzoyl]-5-hydroxy-1-methyl-1H-pyrazole (compound 3.35)

43.60 g (0.13 mol) of 2-chloro-3-(4,5-dihydroisoxazol-3-yl)-4-methylsulfonylbenzoyl chloride in 375 ml of anhydrous dioxane and 13.56 g (0.134 mol) of triethylamine in 375 ml of anhydrous dioxane are simultaneously added dropwise at room temperature under a protective gas atmosphere to a solution 12.74 g (0.13 mol) of 5-hydroxy-1-methylpyrazole and 300 ml of anhydrous dioxane. After the reaction mixture had been stirred 15 for 2 hours at room temperature, it was filtered through silica gel and the residue was washed with dioxane. The eluate was concentrated in vacuo to approximately 500 ml, and 17.94 g (0.13 mol) of dried, finely powdered potassium carbonate were added. After the mixture had been refluxed for 6 hours, the 20 solvent was distilled off in vacuo and the residue was taken up in approximately 700 ml of water. Insoluble constituents were filtered off, and the pH of the filtrate was brought to 2 - 3 by slow addition of 10% strength hydrochloric acid. The precipitate which formed was filtered off with suction. This gave 46.16 g 25 (92% of theory) of 4-[2-chloro-3-(4,5-dihydroisoxazol-3-yl)-4-methylsulfonylbenzoyl]-5-hydroxy-1-methyl-1H-pyrazole. (m.p. > 250°C)

Table 3 shows the above compound and, in addition, other 30 3-heterocyclyl-substituted benzoyl derivatives of the formula I which were prepared, or can be prepared, in a similar manner (if the end products had not precipitated upon acidification with 10% strength hydrochloric acid, they were extracted with ethyl acetate or dichloromethane; the organic phase was subsequently 35 dried and concentrated in vacuo):



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BIBDATASHEET

Bib Data Sheet

CONFIRMATION NO. 4682

SERIAL NUMBER 09/748,006	FILING DATE 12/27/2000 RULE	CLASS 504	GROUP ART UNIT 1626	ATTORNEY DOCKET NO. 47679
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Martina Otten, Ludwigshafen, GERMANY;

Joachim Rheinheimer, Ludwigshafen, GERMANY;

**** CONTINUING DATA *******

This application is a CON of 09/091,300 06/16/1998

**** FOREIGN APPLICATIONS *******

GERMANY 19701446.1 01/17/1997

IF REQUIRED, FOREIGN FILING LICENSE GRANTED**** 04/10/2001**

Foreign Priority claimed 35 USC 119 (a-d) conditions met Verified and Acknowledged	<input type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> Met after Allowance Examiner's Signature _____ Initials _____	STATE OR COUNTRY GERMANY	SHEETS DRAWING 0	TOTAL CLAIMS 23	INDEPENDENT CLAIMS 4
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ADDRESS

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WASHINGTON, DC

20036



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Mary Hale, Information Branch Supervisor
Remsen Bldg. 01 D86
571-272-2507

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➤ Relevant prior art **found**, search results used as follows:

- ☐ 102 rejection
- ☐ 103 rejection
- ☐ Cited as being of interest.
- ☐ Helped examiner better understand the invention.
- ☐ Helped examiner better understand the state of the art in their technology.

Types of relevant prior art found:

- ☐ Foreign Patent(s)
- ☐ Non-Patent Literature
(journal articles, conference proceedings, new product announcements etc.)

➤ Relevant prior art **not found**:

- ☐ Results verified the lack of relevant prior art (helped determine patentability).
- ☐ Results were not useful in determining patentability or understanding the invention.

Comments:

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3 US20020025910/PN

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FILE LAST UPDATED: 21 Jul 2004 (20040721/ED)

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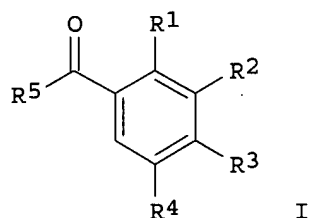
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L1 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 1998:509195 HCAPLUS
DN 129:136166
ED Entered STN: 17 Aug 1998
TI Preparation of 4-(3-heterocyclylbenzoyl)pyrazoles as herbicides.
IN Von Deyn, Wolfgang; Hill, Regina Luise; Baumann, Ernst; Engel, Stefan; Mayer, Guido; Rheinheimer, Joachim; Witschel, Matthias; Misslitz, Ulf; Wagner, Oliver; Otten, Martina; Walter, Helmut; Westphalen, Karl-Otto
PA BASF A.-G., Germany
SO PCT Int. Appl., 393 pp.
CODEN: PIXXD2
DT Patent
LA German
IC ICM C07D413-10
ICS A01N043-72; A01N043-48; C07D417-10; C07D409-10; C07D405-10;

C07D401-10; C07D403-10; C07D411-10; C07D231-20; C07D231-24
 CC 28-8 (Heterocyclic Compounds (More Than One Hetero Atom))
 FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9831682	A1	19980723	WO 1998-EP70	19980108
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	RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	AU 9866133	A1	19980807	AU 1998-66133	19980108
	AU 742514	B2	20020103		
	EP 958292	A1	19991124	EP 1998-907930	19980108
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	TW 513414	B	20021211	TW 1998-87100464	19980115
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	US 2002025910	A1	20020228	US 2000-748006	20001227 <--
PRAI	DE 1997-19701446	A	19970117		
	DE 1997-19740494	A	19970915		
	WO 1998-EP70	W	19980108		
	US 1998-91300	A1	19980616		
OS	MARPAT 129:136166				
GI					



AB Title compds. [I; R1, R3 = H, NO₂, halo, cyano, alkyl, haloalkyl, alkoxy, haloalkoxy, alkylthio, haloalkylthio, alkylsulfinyl, haloalkylsulfinyl, alkylsulfonyl, haloalkylsulfonyl, aminosulfonyl, N-alkylaminosulfonyl, N,N-dialkylaminosulfonyl, N-alkylsulfonylamino, N-haloalkylsulfonylamino, N-alkyl-N-alkylsulfonylamino or N-alkyl-N-haloalkylsulfonylamino; R2 = (substituted) 5-6 membered heterocyclyl containing 1-4 heteroatoms selected from O, S, N; R4 = H, halo, alkyl; R5 = substituted pyrazol-4-yl], were prepared as herbicides (no data). Thus, Me 2-chloro-3-hydroxyiminomethyl-4-methylsulfonylbenzoate (preparation given) in CH₂Cl₂ was treated with ethylene, NaOAc, and aqueous NaOCl to give 90% Me 2-chloro-3-(4,5-dihydroisoxazol-3-yl)-4-methylsulfonylbenzoate. This was converted to the acid chloride, which was coupled with 5-hydroxy-1-methylpyrazole in dioxane/Et₃N to give 92% 4-[2-chloro-3-(4,5-dihydroisoxazol-3-yl)-4-methylsulfonylbenzoyl]-5-hydroxy-1-methyl-1H-pyrazole.

ST heterocyclylbenzoylpyrazole prepn herbicide; pyrazole heterocyclylbenzoyl prepn herbicide

IT Herbicides

(preparation of 4-(3-heterocyclylbenzoyl)pyrazoles as herbicides)

IT 210577-17-6P
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(preparation of 4-(3-heterocyclylbenzoyl)pyrazoles as herbicides)

IT 181997-71-7P 198272-51-4P 198272-54-7P 198272-55-8P 210575-05-6P
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RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of 4-(3-heterocyclylbenzoyl)pyrazoles as herbicides)

IT 74-85-1, Ethene, reactions 75-36-5, Acetyl chloride 115-07-1,
 1-Propene, reactions 122-51-0, Triethyl orthoformate 124-68-5,
 2,2-Dimethylethanolamine 1235-21-8 1576-35-8 2757-23-5,
 Chlorocarbonylsulfonyl chloride 4009-98-7, Methoxymethyltriphenylphospho
 nium chloride 33641-15-5, 5-Hydroxy-1-methylpyrazole 35613-84-4
 82961-52-2 107296-34-4, 1-Ethyl-5-hydroxypyrazole 196819-99-5, Methyl
 2,4-dichloro-3-formylbenzoate 196820-01-6
 RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of 4-(3-heterocyclylbenzoyl)pyrazoles as herbicides)

IT 106904-09-0P 120100-04-1P 120100-44-9P 181997-72-8P 181997-73-9P
 181997-95-5P 181997-96-6P 181997-97-7P 181997-98-8P 196819-53-1P
 196819-54-2P 197165-33-6P 197165-40-5P 197165-73-4P 198272-76-3P
 198272-77-4P 198272-84-3P 198272-85-4P 198273-03-9P 209795-86-8P
 209795-87-9P 210157-91-8P 210405-99-5P 210577-33-6P 210577-34-7P

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210577-45-0P	210577-46-1P	210577-47-2P	210577-48-3P	210577-49-4P
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210577-71-2P	210577-72-3P	210577-73-4P	210577-74-5P	210577-75-6P
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210578-16-8P	210578-17-9P			

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of 4-(3-heterocyclylbenzoyl)pyrazoles as herbicides)

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

- (1) Basf Aktiengesellschaft; WO 9626206 A 1996 HCAPLUS
- (2) Nissan Chemical Industries Ltd; GB 2122188 A 1984 HCAPLUS
- (3) Nissan Chemical Industries Ltd; EP 0203428 A 1986 HCAPLUS
- (4) Toshiaki, Y; US 4460597 A 1984 HCAPLUS

L1 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 1998:509194 HCAPLUS

DN 129:136165

ED Entered STN: 17 Aug 1998

TI Preparation of heterocyclylbenzoylpyrazoles and related compounds as herbicides.

IN Von Deyn, Wolfgang; Hill, Regina Luise; Kardorff, Uwe; Baumann, Ernst; Engel, Stefan; Mayer, Guido; Witschel, Matthias; Rack, Michael; Gotz, Norbert; Gebhardt, Joachim; Misslitz, Ulf; Walter, Helmut; Westphalen, Karl-Otto; Otten, Martina; Rheinheimer, Joachim; et al.

PA BASF A.-G., Germany

SO PCT Int. Appl., 173 pp.

CODEN: PIXXD2

DT Patent

LA German

IC ICM C07D413-10

ICS A01N043-72; C07D498-10; C07D417-10; C07D261-04; C07D291-04;

C07D273-00; C07D263-10; C07D261-20; C07D277-10; C07D277-34;

C07D403-10; C07D419-10; C07D498-10; C07D311-00; C07D261-00

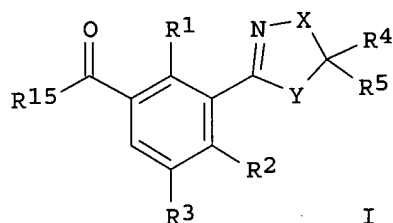
CC 28-8 (Heterocyclic Compounds (More Than One Hetero Atom))

Section cross-reference(s): 5

FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9831681	A1	19980723	WO 1998-EP69	19980108
	W: AL, AU, AZ, BG, BR, BY, CA, CN, CZ, EE, GE, HU, ID, IL, JP, KG, KR, KZ, LT, LV, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TM, TR, UA, US, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	AU 9860929	A1	19980807	AU 1998-60929	19980108
	EP 958291	A1	19991124	EP 1998-905274	19980108
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, SI, LT, LV, FI, RO				

EE 9900290	A	20000215	EE 1999-290	19980108
BR 9806778	A	20000516	BR 1998-6778	19980108
JP 2001508458	T2	20010626	JP 1998-533620	19980108
NZ 336992	A	20010831	NZ 1998-336992	19980108
CN 1117750	B	20030813	CN 1998-802797	19980108
TW 505640	B	20021011	TW 1998-87100502	19980115
ZA 9800362	A	19990716	ZA 1998-362	19980116
ZA 9800363	A	19990716	ZA 1998-363	19980116
NO 9903521	A	19990915	NO 1999-3521	19990716
US 2002025910	A1	20020228	US 2000-748006	20001227 <--
PRAI DE 1997-19701446	A	19970117		
WO 1998-EP69	W	19980108		
US 1998-91300	A1	19980616		
OS MARPAT 129:136165				
GI				



AB Title compds. [I; R1, R2 = H, NO2, halo, cyano, alkyl, haloalkyl, alkoxy, haloalkoxy, alkylthio, haloalkylthio, alkylsulfinyl, haloalkylsulfinyl, alkylsulfonyl, haloalkylsulfonyl; R3 = H, halo, alkyl; R4, R5 = H, halo, cyano, NO2, alkyl, alkoxyalkyl, dialkoxyalkyl, dialkylaminoalkyl, (substituted), Ph, PhCH2, etc.; R4R5 = O, S; X = O, S, NR9, CO, CR10R11; R4R9 or R4R10 or R5R12 or R5R13 = (substituted) (interrupted) alkylene; Y = O, S, NR12, CO, CR13R14; R9, R12 = H, alkyl; R10-R14 = H, alkyl, haloalkyl, alkoxy, carbonyl, haloalkoxy, carbonyl, CONR7R8; R15 = substituted 4-pyrazolyl], were prepared as herbicides and plant growth regulators (no data). Thus, 5-hydroxy-1-methylpyrazole in dioxane was treated with 2-chloro-3-(4,5-dihydroisoxazol-3-yl)-4-methylsulfonylbenzoyl chloride (preparation given) in dioxane and with Et3N in dioxane followed by 2 h stirring to give 92% 4-[2-chloro-3-(4,5-dihydroisoxazol-3-yl)-4-methylsulfonylbenzoyl]-5-hydroxy-1-methyl-1H-pyrazole.

ST heterocyclylbenzoylpyrazole prepn herbicide; pyrazole heterocyclylbenzoyl prepn herbicide

IT	210576-18-4P	210576-20-8P	210576-22-0P	210576-24-2P	210576-26-4P
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RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of heterocyclylbenzoylpyrazoles and related compds. as herbicides)

IT 75-36-5, Acetyl chloride 115-07-1, 1-Propene, reactions 116-11-0,
2-Methoxy-1-propene 124-68-5, 2,2-Dimethylethanolamine 33641-15-5,
5-Hydroxy-1-methylpyrazole 58861-74-8 82961-52-2

RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of heterocyclylbenzoylpyrazoles and related compds. as herbicides)

IT 106904-09-0P 120100-04-1P 120100-44-9P 181997-71-7P 181997-72-8P
181997-73-9P 181997-79-5P 181997-96-6P 181997-98-8P 209795-86-8P
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210632-14-7P 210632-16-9P 210632-18-1P 210632-20-5P 210632-21-6P
210632-22-7P 210632-23-8P 210632-24-9P 210632-26-1P 210632-27-2P
210632-28-3P 210632-29-4P 210632-30-7P 210632-31-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of heterocyclylbenzoylpyrazoles and related compds. as herbicides)

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

- (1) Basf Ag; WO 9626206 A 1996 HCAPLUS
- (2) Nissan Chemical Ind Ltd; EP 0203428 A 1986 HCAPLUS
- (3) Sankyo Co; DE 2513750 A 1975 HCAPLUS
- (4) Sankyo Co; FR 2316235 A 1977 HCAPLUS

L1 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 1998:509191 HCAPLUS

DN 129:122657

ED Entered STN: 17 Aug 1998

TI Preparation of 2-chloro-3-(4,5-dihydroisoxazol-3-yl)-4-methylsulfonylbenzoic acids and related compounds.

IN Rheinheimer, Joachim; Von Deyn, Wolfgang; Gebhardt, Joachim; Hill, Regina Luise; Rack, Michael; Konig, Hartmann; Gotz, Norbert; Maywald, Volker; Kardorff, Uwe

PA BASF A.-G., Germany

SO PCT Int. Appl., 30 pp.

CODEN: PIXXD2

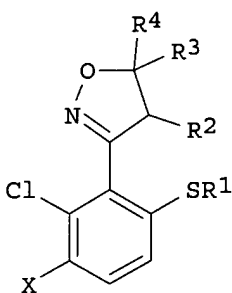
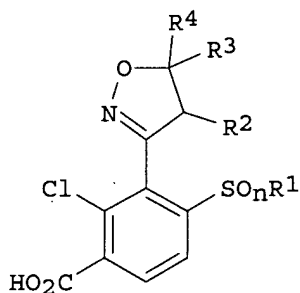
DT Patent

LA German

IC ICM C07D261-04

ICS C07D261-20
 CC 28-6 (Heterocyclic Compounds (More Than One Hetero Atom))
 FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9831676	A1	19980723	WO 1998-EP66	19980108
	W: AL, AU, BG, BR, BY, CA, CN, CZ, EE, GE, HU, ID, IL, JP, KG, KR, KZ, LT, LV, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TM, TR, UA, US, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	AU 9862076	A1	19980807	AU 1998-62076	19980108
	EP 966452	A1	19991229	EP 1998-904041	19980108
	EP 966452	B1	20030502		
	R: CH, DE, FR, GB, LI				
	JP 2001508075	T2	20010619	JP 1998-533617	19980108
	TW 462965	B	20011111	TW 1998-87100495	19980115
	US 6124469	A	20000926	US 1999-341519	19990713
	US 2002025910	A1	20020228	US 2000-748006	20001227 <--
PRAI	DE 1997-19701446	A	19970117		
	DE 1997-19709118	A	19970306		
	WO 1998-EP66	W	19980108		
	US 1998-91300	A1	19980616		
OS	CASREACT 129:122657; MARPAT 129:122657				
GI					



AB Title compds. [I; n = 0-2; R1 = alkyl, haloalkyl; R2-R4 = H, alkyl, haloalkyl; R3R4 = (alkyl-substituted) alkylene] were prepared by treatment of thioethers (II; R1-R4 as above; X = H) with a brominating agent to give II (R1-R4 as above; X = Br) followed by treatment with a Grignard reagent and CO2 followed by optional oxidation. Thus, 3-(2-chloro-6-methylthiophenyl)-4,5-dihydroisoxazole in H2SO4 was treated with Br2 to give 82.6% 3-(3-bromo-2-chloro-6-methylthiophenyl)-4,5-dihydroisoxazole. The latter in THF was treated with Me2CHMgBr and then with dry ice to give 68% 2-chloro-3-(4,5-dihydroisoxazol-3-yl)-4-methylthiobenzoic acid. This in HOAc was treated with Na2WO4 and H2O2 to give 90.9% 2-chloro-3-(4,5-dihydroisoxazol-3-yl)-4-methylsulfonylbenzoic acid.

ST chlorodihydroisoxazolmethylsulfonylbenzoate prepn;
 isoxazolylmethylsulfonylbenzoate chloro dihydro prepn

IT Carboxylation
 (carboxylation of 3-(3-bromo-2-chloro-6-methylthiophenyl)-4,5-dihydroisoxazole with Grignard reagents and carbon dioxide; preparation of 2-chloro-3-(4,5-dihydroisoxazol-3-yl)-4-methylsulfonylbenzoic acids and related compds.)

IT 210405-98-4P
 RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic)

preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of 2-chloro-3-(4,5-dihydroisoxazol-3-yl)-4-methylsulfonylbenzoic acids and related compds.)

IT 210405-99-5P
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
(preparation of 2-chloro-3-(4,5-dihydroisoxazol-3-yl)-4-methylsulfonylbenzoic acids and related compds.)

IT 83-38-5, 2,6-Dichlorobenzaldehyde 5188-07-8, Sodium thiomethoxide
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of 2-chloro-3-(4,5-dihydroisoxazol-3-yl)-4-methylsulfonylbenzoic acids and related compds.)

IT 25185-95-9P 201987-39-5P, 2-Chloro-6-methylthiobenzaldehyde
210405-94-0P, 2-Chloro-6-methylthiobenzaldoxime 210405-95-1P
210405-96-2P 210405-97-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of 2-chloro-3-(4,5-dihydroisoxazol-3-yl)-4-methylsulfonylbenzoic acids and related compds.)

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

(1) Basf Ag; WO 9626200 A 1996 HCAPLUS
(2) Basf Ag; WO 9626206 A 1996 HCAPLUS
(3) Pfizer Inc; WO 9514680 A 1995 HCAPLUS

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 AN 1998-414023 [35] WPIX
 CR 1998-414024 [35]; 1998-437031 [37]
 DNC C1998-124974
 TI New heterocyclyl benzoyl substituted pyrazole derivatives - useful as herbicides, especially for selective weed and weed grass control in crops, e.g. wheat, rice, soya and cotton.
 DC C02
 IN BAUMANN, E; ENGEL, S; GEBHARDT, J; GOTZ, N; HILL, R L; KARDORFF, U; MAYER, G; MISSLITZ, U; OTTEN, M; RACK, M; RHEINHEIMER, J; VON DEYN, W; WALTER, H; WESTPHALEN, K; WITSCHER, M; GOETZ, N; WAGNER, O; KOENIG, H; MAYWALD, V; MISSLITS, U; DEYN, W V; MIBLITZ, U
 PA (BADI) BASF AG; (BAUM-I) BAUMANN E; (DEYN-I) DEYN W V; (ENGE-I) ENGEL S; (GEBH-I) GEBHARDT J; (GOTZ-I) GOTZ N; (HILL-I) HILL R L; (KARD-I) KARDORFF U; (MAYE-I) MAYER G; (MIBL-I) MIBLITZ U; (OTTE-I) OTTEN M; (RACK-I) RACK M; (RHEI-I) RHEINHEIMER J; (WALT-I) WALTER H; (WEST-I) WESTPHALEN K; (WITS-I) WITSCHER M
 CYC 57
 PI WO 9831681 A1 19980723 (199835)* GE 173 C07D413-10
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 W: AL AU AZ BG BR BY CA CN CZ EE GE HU ID IL JP KG KR KZ LT LV MX NO
 NZ PL RO RU SG SI SK TJ TM TR UA US UZ VN
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 ZA 9800362 A 19990929 (199947) 175 C07D000-00
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 EP 958291 A1 19991124 (199954) GE C07D413-10
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 CN 1248255 A 20000322 (200032) C07D413-10
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 US 6124469 A 20000926 (200051) C07D261-18
 HU 2000001493 A2 20000828 (200055) C07D413-10
 MX 9906602 A1 19991001 (200103) C07D413-10
 KR 2000070236 A 20001125 (200131) C07D411-12
 JP 2001508075 W 20010619 (200140) 30 C07D261-04
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 NZ 336992 A 20010831 (200157) C07D417-10
 AU 2001091395 A 20020110 (200213)# A01N043-72
 US 2002025910 A1 20020228 (200220) A01N043-80 <--
 NO 313914 B1 20021223 (200308) C07D413-10
 TW 505640 A 20021011 (200341) A01N043-72
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FDT AU 9860929 A Based on WO 9831681; EP 958291 A1 Based on WO 9831681; CZ 9902523 A3 Based on WO 9831681; CZ 9902522 A3 Based on WO 9831682; BR 9806917 A Based on WO 9831682; BR 9806778 A Based on WO 9831681; US 6124469 A Based on WO 9831676; HU 2000001493 A2 Based on WO 9831681; KR 2000070236 A Based on WO 9831681; JP 2001508075 W Based on WO 9831676; JP 2001508458 W Based on WO 9831681; NZ 336992 A Based on WO 9831681; NO 313914 B1 Previous Publ. NO 9903521

PRAI DE 1997-19701446 19970117; DE 1997-19740494 19970915; DE 1997-19709118 19970306; AU 2001-91395 20011116

IC ICM A01N043-72; A01N043-80; C07D000-00; C07D261-04; C07D261-18; C07D411-12; C07D413-10; C07D417-10

ICS A01N043-48; A01N043-56; A01N043-653; A01N043-76; A01N043-78; A01N043-82; C07D231-20; C07D249-08; C07D261-00; C07D261-20; C07D263-10; C07D271-10; C07D273-00; C07D273-01; C07D277-10; C07D277-34; C07D285-12; C07D291-04; C07D311-00; C07D401-10; C07D403-10; C07D405-10; C07D409-10; C07D411-10; C07D419-10; C07D498-10

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AB WO 9831681 A UPAB: 20030630
 4-(3-Heterocyclylbenzoyl)-pyrazole derivatives (I) and their salts are new: R1, R2 = H; NO2; halo; etc.; R3 = H; halo; or 1-6C alkyl; R4, R5 = H; halo; CN; NO2; 1-4C alkyl optionally substituted by 1-4C alkoxy, di(1-4C alkoxy), etc.; or R4+R5 = 2-6C alkanediyl optionally mono- to tetrasubstituted by 1-4C alkyl and/or optionally interrupted by O, NH or N(1-4C alkyl); or CR4R5 forms C=O or C=S; X = O; S; NR9; CO; or CR10R11; Y = O; S; NR12; CO; or CR13R14; R9, R12 = H or 1-4C alkyl; R10, R11, R13, R14 = H; 1-4C alkyl; 1-4C haloalkyl; 1-4C alkoxycarbonyl; 1-4C haloalkoxycarbonyl; or CONR7R8; or R4 and R9 or R10 together or R5 and R12 or R13 together form 2-6C alkanediyl optionally mono- to tetrasubstituted by 1-4C alkyl and/or optionally interrupted by O, NH or N(1-4C alkyl); R16 = 1-6C alkyl; Z = H or SO2R17; R17 = e.g. 1-4C alkyl; compounds with X = Y = S are excluded together with e.g. 4-[2-chloro-3-(4,5-dihydroisoxazol-3-yl)-4-methylsulphonyl-benzoyl]-1-ethyl-5-hydroxy-1H-pyrazole.

USE- (I) are herbicides. They are especially suitable for the selective pre- and post-emergence control of weeds and weed grasses, e.g. goosefoot, giant foxtail, white mustard and black nightshade in crops, e.g. wheat, rice, maize, soya and cotton. (I) are applied at a rate of 0.001-3 kg/ha, preferably 0.01-1 kg/ha.

ADVANTAGE - (I) are more active and tolerated better by cultivated plants than the pyrazol-4-ylbenzoyl derivatives known from WO 9626206.

Dwg.0/0

FS CPI

FA AB; GI; DCN

=> b home

FILE 'HOME' ENTERED AT 15:50:02 ON 22 JUL 2004

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=> b reg

FILE 'REGISTRY' ENTERED AT 16:31:23 ON 22 JUL 2004
 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
 PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
 COPYRIGHT (C) 2004 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
 provided by InfoChem.

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 DICTIONARY FILE UPDATES: 21 JUL 2004 HIGHEST RN 714195-59-2

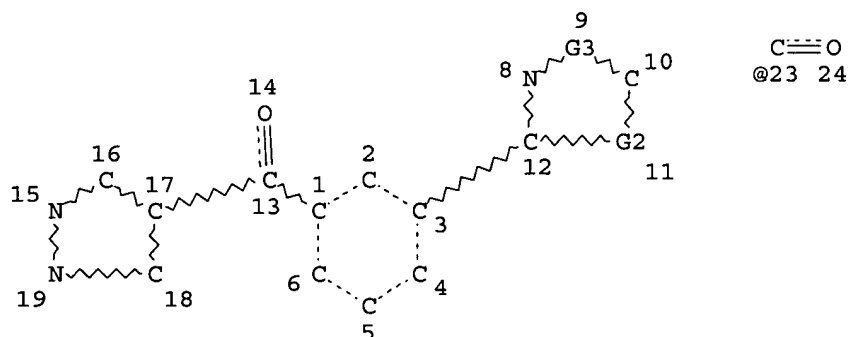
TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

Please note that search-term pricing does apply when
 conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
 information enter HELP PROP at an arrow prompt in the file or refer
 to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> d que stat l11
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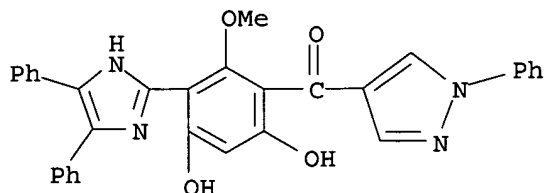
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42 ANSWERS

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L11 ANSWER 1 OF 42 REGISTRY COPYRIGHT 2004 ACS on STN
RN 474951-64-9 REGISTRY
CN Methanone, [3-(4,5-diphenyl-1H-imidazol-2-yl)-4,6-dihydroxy-2-methoxyphenyl] (1-phenyl-1H-pyrazol-4-yl)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
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SR CA
LC STN Files: CA, CAPLUS, TOXCENTER
DT.CA Caplus document type: Journal
RL.NP Roles from non-patents: PREP (Preparation)

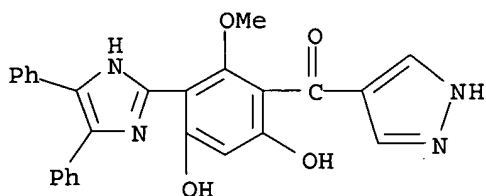


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1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 137:352951

L11 ANSWER 2 OF 42 REGISTRY COPYRIGHT 2004 ACS on STN
RN 474951-62-7 REGISTRY
CN Methanone, [3-(4,5-diphenyl-1H-imidazol-2-yl)-4,6-dihydroxy-2-methoxyphenyl]-1H-pyrazol-4-yl- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C26 H20 N4 O4
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER
DT.CA Caplus document type: Journal
RL.NP Roles from non-patents: PREP (Preparation)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 137:352951

L11 ANSWER 3 OF 42 REGISTRY COPYRIGHT 2004 ACS on STN
RN 252190-66-2 REGISTRY

CN 1,3-Cyclohexanedione, 2-[2-chloro-4-(methylsulfonyl)benzoyl]-, mixt. with [2-chloro-4-(methylsulfonyl)-3-(2-thiazolyl)phenyl] (1-ethyl-5-hydroxy-1H-pyrazol-4-yl)methanone (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Methanone, [2-chloro-4-(methylsulfonyl)-3-(2-thiazolyl)phenyl] (1-ethyl-5-hydroxy-1H-pyrazol-4-yl)-, mixt. contg. (9CI)

MF C16 H14 Cl N3 O4 S2 . C14 H13 Cl O5 S

CI MXS

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

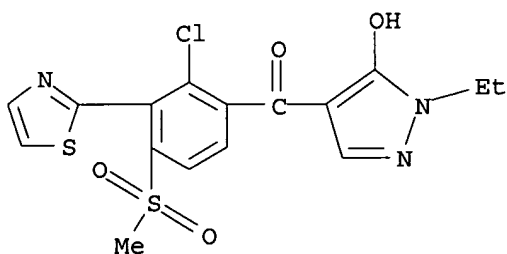
DT.CA Caplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); USES (Uses)

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CRN 182060-80-6

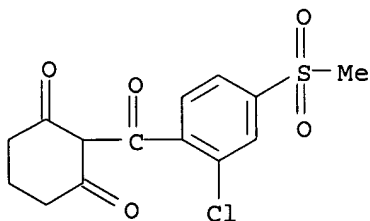
CMF C16 H14 Cl N3 O4 S2



CM 2

CRN 99105-77-8

CMF C14 H13 Cl O5 S



1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 132:20093

L11 ANSWER 4 OF 42 REGISTRY COPYRIGHT 2004 ACS on STN

RN 252190-61-7 REGISTRY

CN 3-Pyridinecarboxamide, 2-[[[[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]amino]sulfonyl]-N,N-dimethyl-, mixt. with [2-chloro-4-(methylsulfonyl)-3-(2-thiazolyl)phenyl] (1-ethyl-5-hydroxy-1H-pyrazol-4-yl)methanone (9CI) (CA INDEX NAME)

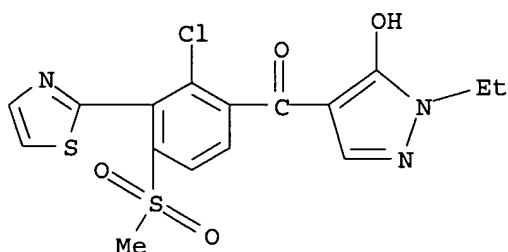
OTHER CA INDEX NAMES:

CN Methanone, [2-chloro-4-(methylsulfonyl)-3-(2-thiazolyl)phenyl] (1-ethyl-5-

hydroxy-1H-pyrazol-4-yl)-, mixt. contg. (9CI)
 MF C16 H14 Cl N3 O4 S2 . C15 H18 N6 O6 S
 CI MXS
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL
 DT.CA Caplus document type: Patent
 RL.P Roles from patents: BIOL (Biological study); USES (Uses)

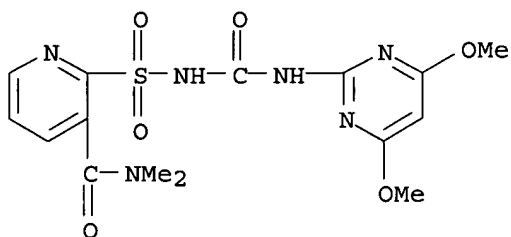
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CRN 182060-80-6
 CMF C16 H14 Cl N3 O4 S2



CM 2

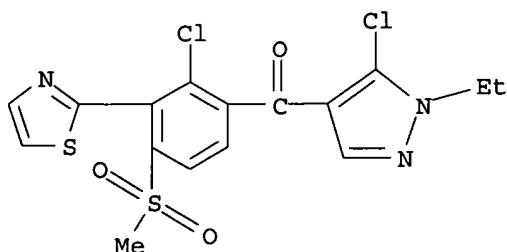
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 CMF C15 H18 N6 O6 S



1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 132:20093

L11 ANSWER 5 OF 42 REGISTRY COPYRIGHT 2004 ACS on STN
 RN 225648-54-4 REGISTRY
 CN Methanone, (5-chloro-1-ethyl-1H-pyrazol-4-yl)[2-chloro-4-(methylsulfonyl)-3-(2-thiazolyl)phenyl]- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C16 H13 Cl2 N3 O3 S2
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL
 DT.CA Caplus document type: Patent
 RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

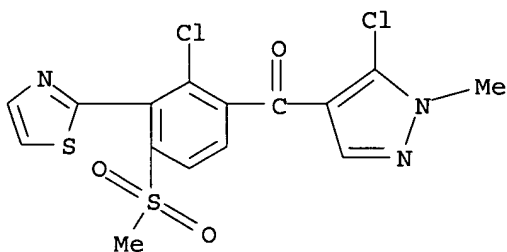


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1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 131:5255

L11 ANSWER 6 OF 42 REGISTRY COPYRIGHT 2004 ACS on STN
RN 225648-48-6 REGISTRY
CN Methanone, (5-chloro-1-methyl-1H-pyrazol-4-yl) [2-chloro-4-(methylsulfonyl)-3-(2-thiazolyl)phenyl]- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C15 H11 Cl2 N3 O3 S2
SR CA
LC STN Files: CA, CAPLUS, USPATFULL
DT.CA Caplus document type: Patent
RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)



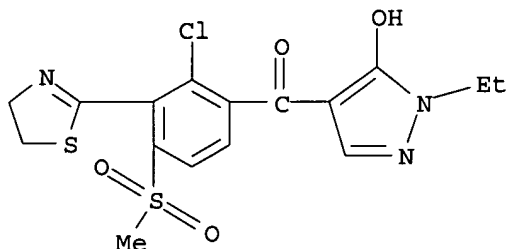
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1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 131:5255

L11 ANSWER 7 OF 42 REGISTRY COPYRIGHT 2004 ACS on STN
RN 210631-71-3 REGISTRY
CN Methanone, [2-chloro-3-(4,5-dihydro-2-thiazolyl)-4-(methylsulfonyl)phenyl] (1-ethyl-5-hydroxy-1H-pyrazol-4-yl)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C16 H16 Cl N3 O4 S2
SR CA

LC STN Files: CA, CAPLUS
DT.CA Caplus document type: Patent
RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

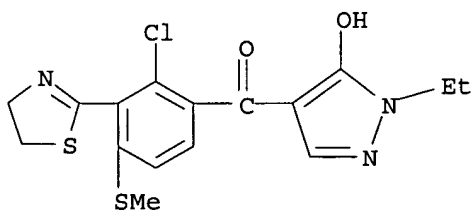


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1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 129:136165

L11 ANSWER 8 OF 42 REGISTRY COPYRIGHT 2004 ACS on STN
RN 210631-70-2 REGISTRY
CN Methanone, [2-chloro-3-(4,5-dihydro-2-thiazolyl)-4-(methylthio)phenyl] (1-ethyl-5-hydroxy-1H-pyrazol-4-yl)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C16 H16 Cl N3 O2 S2
SR CA
LC STN Files: CA, CAPLUS
DT.CA Caplus document type: Patent
RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)



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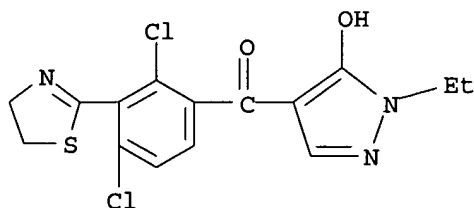
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1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 129:136165

L11 ANSWER 9 OF 42 REGISTRY COPYRIGHT 2004 ACS on STN
RN 210631-69-9 REGISTRY
CN Methanone, [2,4-dichloro-3-(4,5-dihydro-2-thiazolyl)phenyl] (1-ethyl-5-hydroxy-1H-pyrazol-4-yl)- (9CI) (CA INDEX NAME)

Searched by Noble Jarrell

FS 3D CONCORD
 MF C15 H13 Cl2 N3 O2 S
 SR CA
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 DT.CA Caplus document type: Patent
 RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

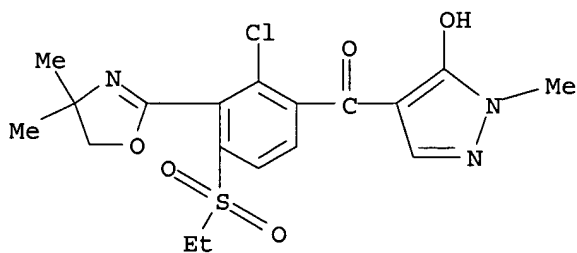


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1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 129:136165

L11 ANSWER 10 OF 42 REGISTRY COPYRIGHT 2004 ACS on STN
 RN 210631-60-0 REGISTRY
 CN Methanone, [2-chloro-3-(4,5-dihydro-4,4-dimethyl-2-oxazolyl)-4-(ethylsulfonyl)phenyl] (5-hydroxy-1-methyl-1H-pyrazol-4-yl) - (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C18 H20 Cl N3 O5 S
 SR CA
 LC STN Files: CA, CAPLUS
 DT.CA Caplus document type: Patent
 RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

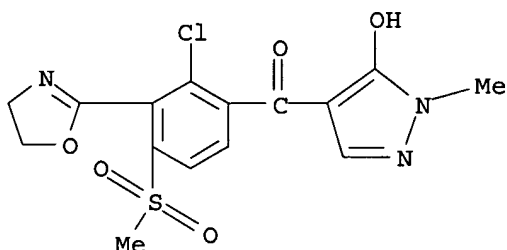


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 129:136165

L11 ANSWER 11 OF 42 REGISTRY COPYRIGHT 2004 ACS on STN
RN 210631-41-7 REGISTRY
CN Methanone, [2-chloro-3-(4,5-dihydro-2-oxazolyl)-4-(methylsulfonyl)phenyl] (5-hydroxy-1-methyl-1H-pyrazol-4-yl)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C15 H14 Cl N3 O5 S
SR CA
LC STN Files: CA, CAPLUS
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RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

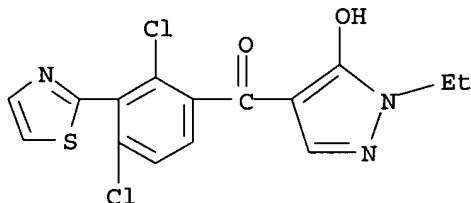


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1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 129:136165

L11 ANSWER 12 OF 42 REGISTRY COPYRIGHT 2004 ACS on STN
RN 210577-14-3 REGISTRY
CN Methanone, [2,4-dichloro-3-(2-thiazolyl)phenyl] (1-ethyl-5-hydroxy-1H-pyrazol-4-yl)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C15 H11 Cl2 N3 O2 S
SR CA
LC STN Files: CA, CAPLUS
DT.CA CAPLUS document type: Patent
RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)



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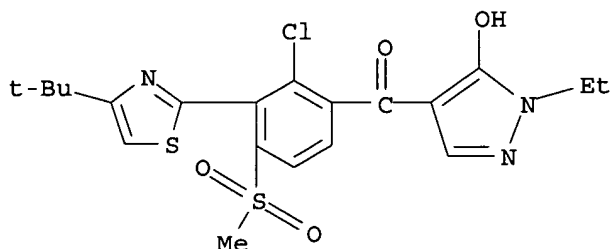
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Searched by Noble Jarrell

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 129:136166

L11 ANSWER 13 OF 42 REGISTRY COPYRIGHT 2004 ACS on STN
RN 210577-13-2 REGISTRY
CN Methanone, [2-chloro-3-[4-(1,1-dimethylethyl)-2-thiazolyl]-4-(methylsulfonyl)phenyl] (1-ethyl-5-hydroxy-1H-pyrazol-4-yl)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C20 H22 Cl N3 O4 S2
SR CA
LC STN Files: CA, CAPLUS
DT.CA CAplus document type: Patent
RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)



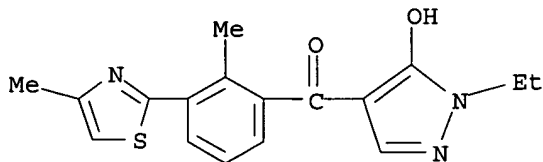
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REFERENCE 1: 129:136166

L11 ANSWER 14 OF 42 REGISTRY COPYRIGHT 2004 ACS on STN
RN 210577-10-9 REGISTRY
CN Methanone, (1-ethyl-5-hydroxy-1H-pyrazol-4-yl) [2-methyl-3-(4-methyl-2-thiazolyl)phenyl]- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C17 H17 N3 O2 S
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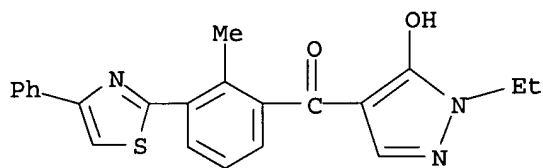


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1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 129:136166

L11 ANSWER 15 OF 42 REGISTRY COPYRIGHT 2004 ACS on STN
RN 210577-09-6 REGISTRY
CN Methanone, (1-ethyl-5-hydroxy-1H-pyrazol-4-yl) [2-methyl-3-(4-phenyl-2-thiazolyl)phenyl]- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C22 H19 N3 O2 S
SR CA
LC STN Files: CA, CAPLUS
DT.CA Caplus document type: Patent
RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

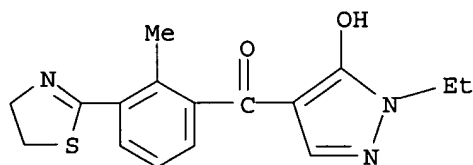


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 129:136166

L11 ANSWER 16 OF 42 REGISTRY COPYRIGHT 2004 ACS on STN
RN 210577-04-1 REGISTRY
CN Methanone, [3-(4,5-dihydro-2-thiazolyl)-2-methylphenyl] (1-ethyl-5-hydroxy-1H-pyrazol-4-yl)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C16 H17 N3 O2 S
SR CA
LC STN Files: CA, CAPLUS
DT.CA Caplus document type: Patent
RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)

Searched by Noble Jarrell

2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 129:136166

REFERENCE 2: 129:136165

L11 ANSWER 17 OF 42 REGISTRY COPYRIGHT 2004 ACS on STN

RN 210576-91-3 REGISTRY

CN Methanone, [2-chloro-3-(4,5-dihydro-4,4-dimethyl-2-oxazolyl)-4-(methylsulfonyl)phenyl] (1-ethyl-5-hydroxy-1H-pyrazol-4-yl)- (9CI) (CA INDEX NAME)

FS 3D CONCORD

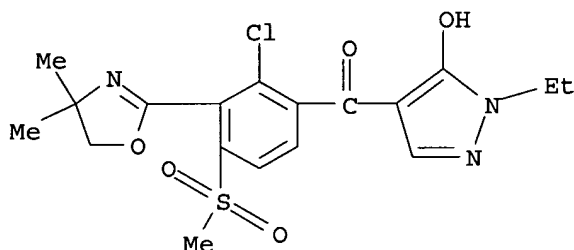
MF C18 H20 Cl N3 O5 S

SR CA

LC STN Files: CA, CAPLUS

DT.CA Caplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 129:136166

REFERENCE 2: 129:136165

L11 ANSWER 18 OF 42 REGISTRY COPYRIGHT 2004 ACS on STN

RN 210576-89-9 REGISTRY

CN Methanone, [2-chloro-3-(4,5-dihydro-4,4-dimethyl-2-oxazolyl)-4-(methylsulfonyl)phenyl] (5-hydroxy-1-methyl-1H-pyrazol-4-yl)- (9CI) (CA INDEX NAME)

FS 3D CONCORD

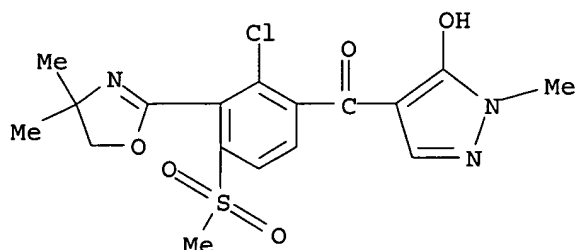
MF C17 H18 Cl N3 O5 S

SR CA

LC STN Files: CA, CAPLUS

DT.CA Caplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 129:136166

REFERENCE 2: 129:136165

L11 ANSWER 19 OF 42 REGISTRY COPYRIGHT 2004 ACS on STN

RN 210575-82-9 REGISTRY

CN Ethanone, 2-[[4-[2-chloro-4-(methanesulfonyl)-3-(2-thiazolyl)benzoyl]-1-ethyl-1H-pyrazol-5-yl]oxy]-1-phenyl- (9CI) (CA INDEX NAME)

FS 3D CONCORD

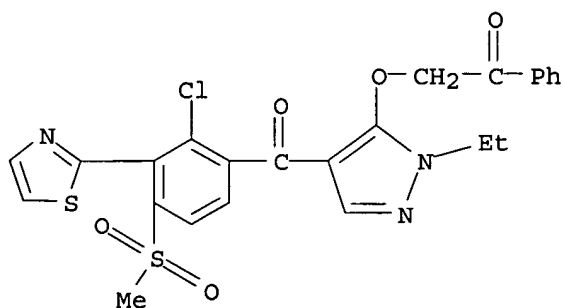
MF C24 H20 Cl N3 O5 S2

SR CA

LC STN Files: CA, CAPLUS

DT.CA Caplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 129:136166

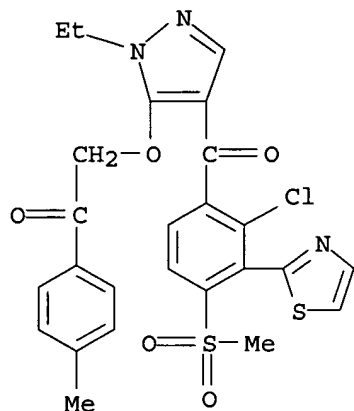
L11 ANSWER 20 OF 42 REGISTRY COPYRIGHT 2004 ACS on STN

RN 210575-81-8 REGISTRY

CN Ethanone, 2-[[4-[2-chloro-4-(methanesulfonyl)-3-(2-thiazolyl)benzoyl]-1-ethyl-1H-pyrazol-5-yl]oxy]-1-(4-methylphenyl)- (9CI) (CA INDEX NAME)

Searched by Noble Jarrell

FS 3D CONCORD
 MF C25 H22 Cl N3 O5 S2
 SR CA
 LC STN Files: CA, CAPLUS
 DT.CA CAplus document type: Patent
 RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

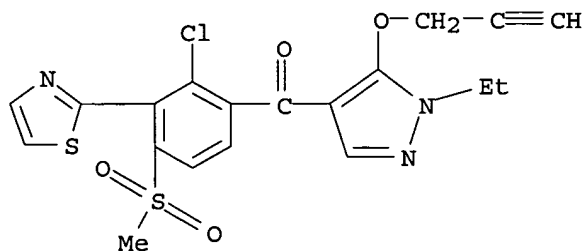


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 129:136166

L11 ANSWER 21 OF 42 REGISTRY COPYRIGHT 2004 ACS on STN
 RN 210575-80-7 REGISTRY
 CN Methanone, [2-chloro-4-(methanesulfonyl)-3-(2-thiazolyl)phenyl] [1-ethyl-5-(2-propynyloxy)-1H-pyrazol-4-yl]- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C19 H16 Cl N3 O4 S2
 SR CA
 LC STN Files: CA, CAPLUS
 DT.CA CAplus document type: Patent
 RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)



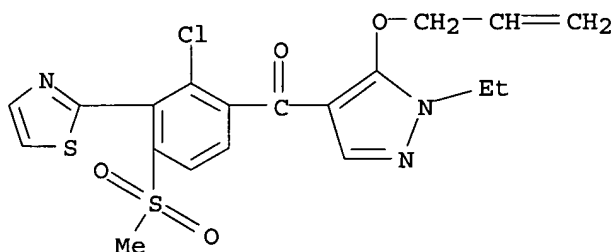
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

Searched by Noble Jarrell

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 129:136166

L11 ANSWER 22 OF 42 REGISTRY COPYRIGHT 2004 ACS on STN
RN 210575-79-4 REGISTRY
CN Methanone, [2-chloro-4-(methylsulfonyl)-3-(2-thiazolyl)phenyl] [1-ethyl-5-(2-propenyloxy)-1H-pyrazol-4-yl]- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C19 H18 Cl N3 O4 S2
SR CA
LC STN Files: CA, CAPLUS
DT.CA Caplus document type: Patent
RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

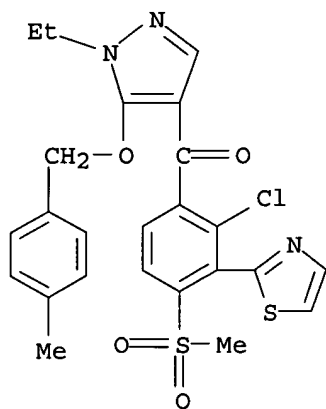


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 129:136166

L11 ANSWER 23 OF 42 REGISTRY COPYRIGHT 2004 ACS on STN
RN 210575-78-3 REGISTRY
CN Methanone, [2-chloro-4-(methylsulfonyl)-3-(2-thiazolyl)phenyl] [1-ethyl-5-[(4-methylphenyl)methoxy]-1H-pyrazol-4-yl]- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C24 H22 Cl N3 O4 S2
SR CA
LC STN Files: CA, CAPLUS
DT.CA Caplus document type: Patent
RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

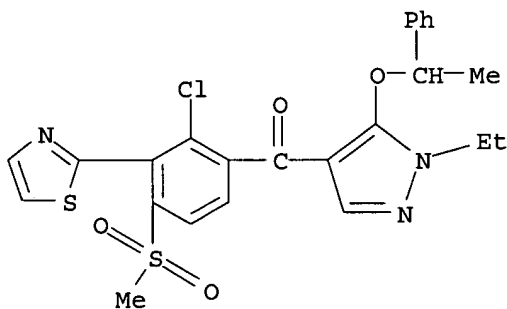


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 129:136166

L11 ANSWER 24 OF 42 REGISTRY COPYRIGHT 2004 ACS on STN
RN 210575-77-2 REGISTRY
CN Methanone, [2-chloro-4-(methanesulfonyl)-3-(2-thiazolyl)phenyl] [1-ethyl-5-(1-phenylethoxy)-1H-pyrazol-4-yl]- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C24 H22 Cl N3 O4 S2
SR CA
LC STN Files: CA, CAPLUS
DT.CA Caplus document type: Patent
RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

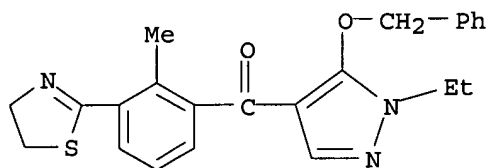


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 129:136166

L11 ANSWER 25 OF 42 REGISTRY COPYRIGHT 2004 ACS on STN
 RN 210575-60-3 REGISTRY
 CN Methanone, [3-(4,5-dihydro-2-thiazolyl)-2-methylphenyl][1-ethyl-5-(phenylmethoxy)-1H-pyrazol-4-yl]- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C23 H23 N3 O2 S
 SR CA
 LC STN Files: CA, CAPLUS
 DT.CA Caplus document type: Patent
 RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

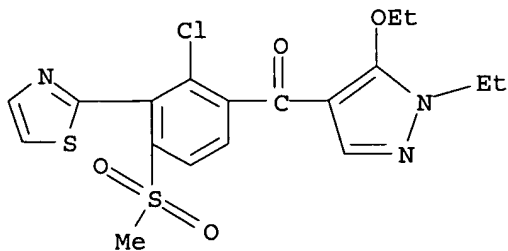


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 129:136166

L11 ANSWER 26 OF 42 REGISTRY COPYRIGHT 2004 ACS on STN
 RN 210575-52-3 REGISTRY
 CN Methanone, [2-chloro-4-(methylsulfonyl)-3-(2-thiazolyl)phenyl][5-ethoxy-1-ethyl-1H-pyrazol-4-yl]- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C18 H18 Cl N3 O4 S2
 SR CA
 LC STN Files: CA, CAPLUS
 DT.CA Caplus document type: Patent
 RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

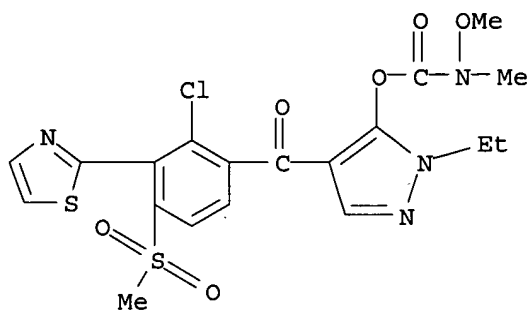


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 129:136166

L11 ANSWER 27 OF 42 REGISTRY COPYRIGHT 2004 ACS on STN
 RN 210575-51-2 REGISTRY
 CN Carbamic acid, methoxymethyl-, 4-[2-chloro-4-(methylsulfonyl)-3-(2-thiazolyl)benzoyl]-1-ethyl-1H-pyrazol-5-yl ester (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C19 H19 Cl N4 O6 S2
 SR CA
 LC STN Files: CA, CAPLUS
 DT.CA Caplus document type: Patent
 RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

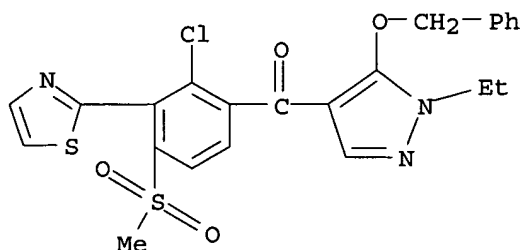


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 129:136166

L11 ANSWER 28 OF 42 REGISTRY COPYRIGHT 2004 ACS on STN
 RN 210575-50-1 REGISTRY
 CN Methanone, [2-chloro-4-(methylsulfonyl)-3-(2-thiazolyl)phenyl][1-ethyl-5-(phenylmethoxy)-1H-pyrazol-4-yl]- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C23 H20 Cl N3 O4 S2
 SR CA
 LC STN Files: CA, CAPLUS
 DT.CA Caplus document type: Patent
 RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

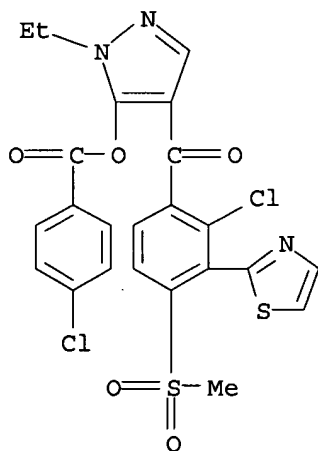


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 129:136166

L11 ANSWER 29 OF 42 REGISTRY COPYRIGHT 2004 ACS on STN
RN 210575-49-8 REGISTRY
CN Benzoic acid, 4-chloro-, 4-[2-chloro-4-(methylsulfonyl)-3-(2-thiazolyl)benzoyl]-1-ethyl-1H-pyrazol-5-yl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C23 H17 Cl2 N3 O5 S2
SR CA
LC STN Files: CA, CAPLUS
DT.CA Caplus document type: Patent
RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

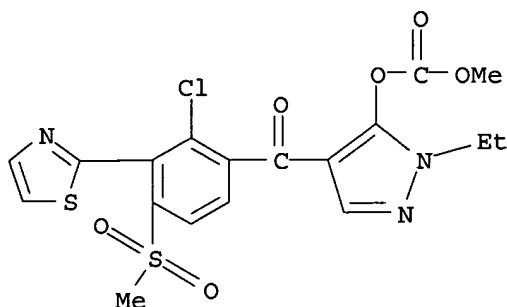


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 129:136166

L11 ANSWER 30 OF 42 REGISTRY COPYRIGHT 2004 ACS on STN
RN 210575-48-7 REGISTRY
CN Carbonic acid, 4-[2-chloro-4-(methylsulfonyl)-3-(2-thiazolyl)benzoyl]-1-ethyl-1H-pyrazol-5-yl methyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C18 H16 Cl N3 O6 S2
SR CA
LC STN Files: CA, CAPLUS
DT.CA Caplus document type: Patent
RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

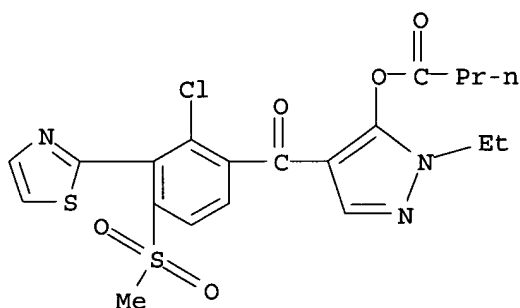


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 129:136166

L11 ANSWER 31 OF 42 REGISTRY COPYRIGHT 2004 ACS on STN
RN 210575-47-6 REGISTRY
CN Butanoic acid, 4-[2-chloro-4-(methylsulfonyl)-3-(2-thiazolyl)benzoyl]-1-ethyl-1H-pyrazol-5-yl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C20 H20 Cl N3 O5 S2
SR CA
LC STN Files: CA, CAPLUS
DT.CA Caplus document type: Patent
RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

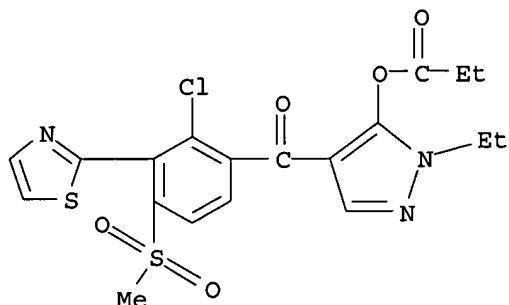
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 129:136166

L11 ANSWER 32 OF 42 REGISTRY COPYRIGHT 2004 ACS on STN
RN 210575-46-5 REGISTRY
CN Methanone, [2-chloro-4-(methylsulfonyl)-3-(2-thiazolyl)phenyl][1-ethyl-5-(1-oxopropoxy)-1H-pyrazol-4-yl]- (9CI) (CA INDEX NAME)

Searched by Noble Jarrell

FS 3D CONCORD
 MF C19 H18 Cl N3 O5 S2
 SR CA
 LC STN Files: CA, CAPLUS
 DT.CA Caplus document type: Patent
 RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

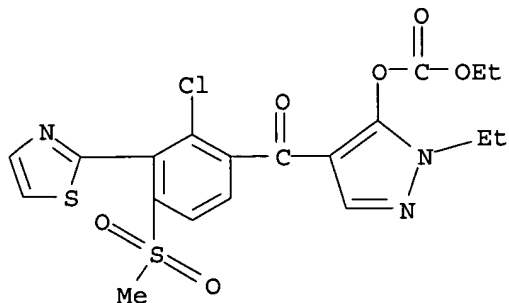


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 129:136166

L11 ANSWER 33 OF 42 REGISTRY COPYRIGHT 2004 ACS on STN
 RN 210575-45-4 REGISTRY
 CN Carbonic acid, 4-[2-chloro-4-(methylsulfonyl)-3-(2-thiazolyl)benzoyl]-1-ethyl-1H-pyrazol-5-yl ethyl ester (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C19 H18 Cl N3 O6 S2
 SR CA
 LC STN Files: CA, CAPLUS
 DT.CA Caplus document type: Patent
 RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

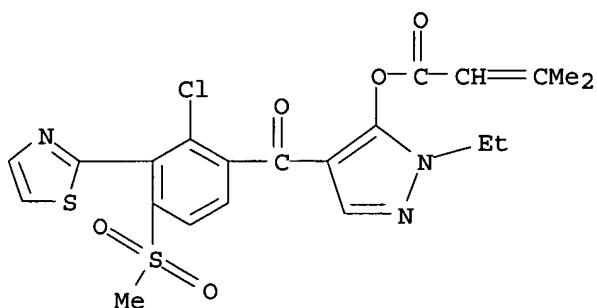
1 REFERENCES IN FILE CA (1907 TO DATE)

Searched by Noble Jarrell

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 129:136166

L11 ANSWER 34 OF 42 REGISTRY COPYRIGHT 2004 ACS on STN
RN 210575-44-3 REGISTRY
CN 2-Butenoic acid, 3-methyl-, 4-[2-chloro-4-(methylsulfonyl)-3-(2-thiazolyl)benzoyl]-1-ethyl-1H-pyrazol-5-yl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C21 H20 Cl N3 O5 S2
SR CA
LC STN Files: CA, CAPLUS
DT.CA CAplus document type: Patent
RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)



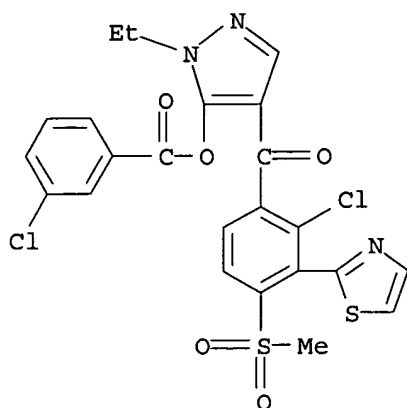
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 129:136166

L11 ANSWER 35 OF 42 REGISTRY COPYRIGHT 2004 ACS on STN
RN 210575-42-1 REGISTRY
CN Benzoic acid, 3-chloro-, 4-[2-chloro-4-(methylsulfonyl)-3-(2-thiazolyl)benzoyl]-1-ethyl-1H-pyrazol-5-yl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C23 H17 Cl2 N3 O5 S2
SR CA
LC STN Files: CA, CAPLUS
DT.CA CAplus document type: Patent
RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

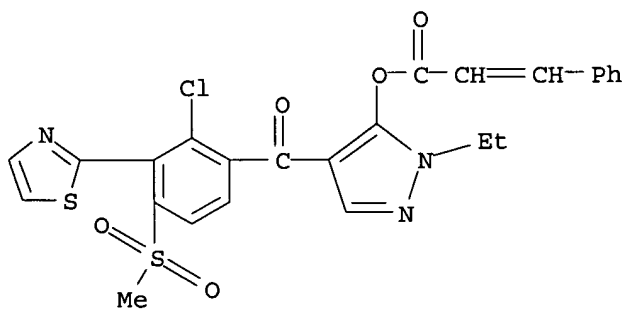


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 129:136166

L11 ANSWER 36 OF 42 REGISTRY COPYRIGHT 2004 ACS on STN
RN 210575-40-9 REGISTRY
CN 2-Propenoic acid, 3-phenyl-, 4-[2-chloro-4-(methylsulfonyl)-3-(2-thiazolyl)benzoyl]-1-ethyl-1H-pyrazol-5-yl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C25 H20 Cl N3 O5 S2
SR CA
LC STN Files: CA, CAPLUS
DT.CA Caplus document type: Patent
RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)



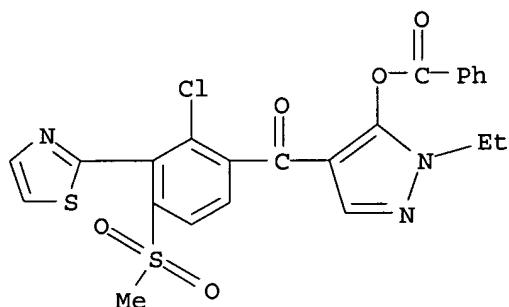
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 129:136166

Searched by Noble Jarrell

L11 ANSWER 37 OF 42 REGISTRY COPYRIGHT 2004 ACS on STN
RN 210575-38-5 REGISTRY
CN Methanone, [5-(benzoyloxy)-1-ethyl-1H-pyrazol-4-yl][2-chloro-4-(methylsulfonyl)-3-(2-thiazolyl)phenyl]- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C23 H18 Cl N3 O5 S2
SR CA
LC STN Files: CA, CAPLUS
DT.CA Caplus document type: Patent
RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

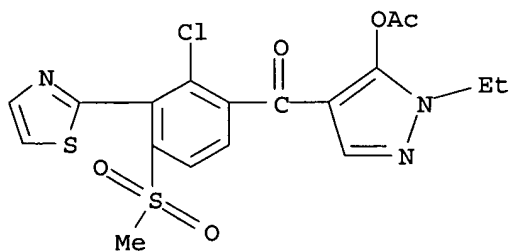


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 129:136166

L11 ANSWER 38 OF 42 REGISTRY COPYRIGHT 2004 ACS on STN
RN 210575-35-2 REGISTRY
CN Methanone, [5-(acetyloxy)-1-ethyl-1H-pyrazol-4-yl][2-chloro-4-(methylsulfonyl)-3-(2-thiazolyl)phenyl]- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C18 H16 Cl N3 O5 S2
SR CA
LC STN Files: CA, CAPLUS
DT.CA Caplus document type: Patent
RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)



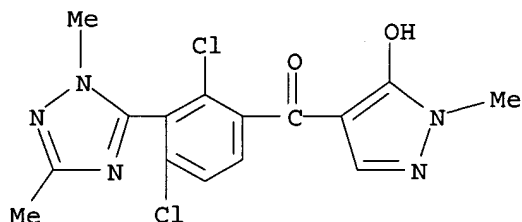
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

Searched by Noble Jarrell

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 129:136166

L11 ANSWER 39 OF 42 REGISTRY COPYRIGHT 2004 ACS on STN
RN 198272-64-9 REGISTRY
CN Methanone, [2,4-dichloro-3-(1,3-dimethyl-1H-1,2,4-triazol-5-yl)phenyl] (5-hydroxy-1-methyl-1H-pyrazol-4-yl)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C15 H13 Cl2 N5 O2
SR CA
LC STN Files: CA, CAPLUS
DT.CA Caplus document type: Patent
RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)

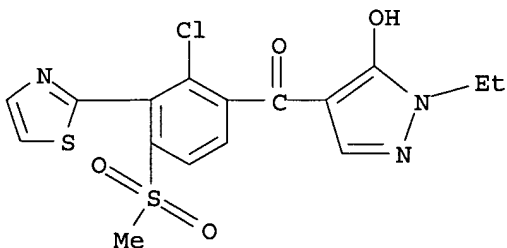


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 127:346402

L11 ANSWER 40 OF 42 REGISTRY COPYRIGHT 2004 ACS on STN
RN 182060-80-6 REGISTRY
CN Methanone, [2-chloro-4-(methylsulfonyl)-3-(2-thiazolyl)phenyl] (1-ethyl-5-hydroxy-1H-pyrazol-4-yl)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C16 H14 Cl N3 O4 S2
CI COM
SR CA
LC STN Files: CA, CAPLUS, USPATFULL
DT.CA Caplus document type: Patent
RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

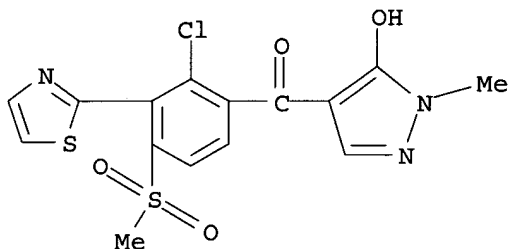


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 125:247812

L11 ANSWER 41 OF 42 REGISTRY COPYRIGHT 2004 ACS on STN
RN 182060-76-0 REGISTRY
CN Methanone, [2-chloro-4-(methylsulfonyl)-3-(2-thiazolyl)phenyl] (5-hydroxy-1-methyl-1H-pyrazol-4-yl)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C15 H12 Cl N3 O4 S2
SR CA
LC STN Files: CA, CAPLUS, USPATFULL
DT.CA Caplus document type: Patent
RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)



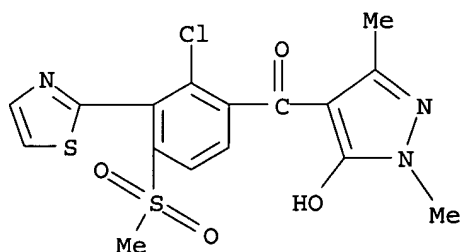
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 133:218862

REFERENCE 2: 125:247812

L11 ANSWER 42 OF 42 REGISTRY COPYRIGHT 2004 ACS on STN
RN 182060-67-9 REGISTRY
CN Methanone, [2-chloro-4-(methylsulfonyl)-3-(2-thiazolyl)phenyl] (5-hydroxy-1,3-dimethyl-1H-pyrazol-4-yl)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C16 H14 Cl N3 O4 S2
SR CA
LC STN Files: CA, CAPLUS, USPATFULL
DT.CA Caplus document type: Patent
RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 133:218862

REFERENCE 2: 125:247812

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3 US20020025910/PN

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L2 FILE 'HCAPLUS' ENTERED AT 15:48:51 ON 22 JUL 2004
TRA L1 1- RN : 401 TERMS

L3 FILE 'REGISTRY' ENTERED AT 15:48:52 ON 22 JUL 2004
401 SEA L2

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1 US20020025910/PN

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L8 2 L7
L9 STR L7
L10 2 L9
L11 42 L9 FULL
SAVE TEMP L11 SHIAO006FUL/A

L12 FILE 'HCAPLUS' ENTERED AT 16:11:57 ON 22 JUL 2004
8 L11
L13 26786 BASF/CS,PA
L14 6 L12 AND L13
L15 2 L12 NOT L14
L16 1 L15 AND (PY<=1998 OR AY<=1998 OR PRY<=1998)

L17 FILE 'USPATFULL, USPAT2' ENTERED AT 16:16:33 ON 22 JUL 2004
6 L11

Searched by Noble Jarrell

L18 11780 BASF/CS,PA
L19 5 L17 AND L18
L20 1 L17 NOT L19
L21 1 L20 AND (PY<=1998 OR AY<=1998 OR PRY<=1998)

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L22 0 L11

=> b hcap

FILE 'HCAPLUS' ENTERED AT 16:32:01 ON 22 JUL 2004
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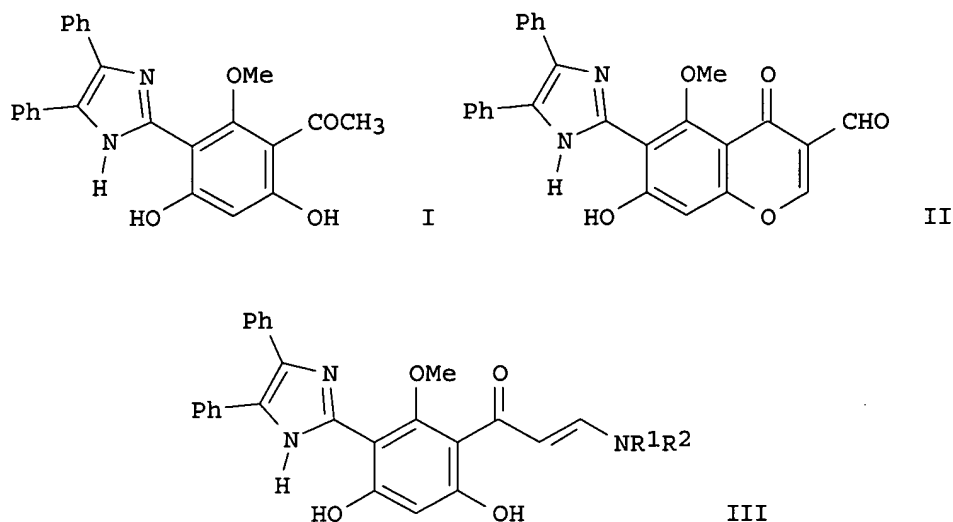
FILE COVERS 1907 - 22 Jul 2004 VOL 141 ISS 4
FILE LAST UPDATED: 21 Jul 2004 (20040721/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

'OBI' IS DEFAULT SEARCH FIELD FOR 'HCAPLUS' FILE

=> d all fhitr l12 tot

L12 ANSWER 1 OF 8 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 2002:217200 HCAPLUS
DN 137:352951
ED Entered STN: 22 Mar 2002
TI Synthesis and reactions of some new substituted 6-imidazolyl-4-oxo-4H-1-benzopyran-3- carboxaldehyde and use of DNA in evaluation of their biological activity
AU Abdel-Rahman, A. H.; Khalil, A. M.; Keshk, E. M.
CS Department of Chemistry, Faculty of Science, Mansoura University, Mansoura, Egypt
SO Bollettino Chimico Farmaceutico (2001), 140(6), 387-396
CODEN: BCFAAI; ISSN: 0006-6648
PB Societa Editoriale Farmaceutica
DT Journal
LA English
CC 28-9 (Heterocyclic Compounds (More Than One Hetero Atom))
Section cross-reference(s): 1
GI



AB Vilsmeier-Haack reaction of imidazolyl acetophenone I gave 6-imidazolyl-4-oxo-4H-1-benzopyran-3-carboxaldehyde II. II was reacted with primary amines (1:1 molar ratio) to form the corresponding n-aryl (heteroaryl) imino derivs. Treatment of aldehyde II with excess amines (1:2 molar ratio) gave the corresponding 2-arylamino-3-arylaminomethylenebenzopyran derivs. Selected n-aryl (heteroaryl) imino derivs. were reacted with thioglycolic acid to give benzopyranothiazepinone derivs. When II was treated with secondary amines, the corresponding trans-enaminoketones III were produced. III were reacted with hydrazines and/or hydroxylamine hydrochloride to give pyrazolyl and / or isoxazolyl benzene derivs., resp. The reaction of aldehyde II with hydrazines at reduced temps. gave the corresponding hydrazones. However, the reaction II with hydrazines on refluxing gave the corresponding pyrazole derivs. The structural formula of the new compds. were established by using different instrumental analyses. Some compds. in this study were biol. evaluated for their ability to bind to DNA.

ST benzopyran imidazolyl prepn antitumor agent; imidazole benzopyranyl prepn antitumor agent

IT Antitumor agents

Neoplasm

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(Preparation and antitumor activity of substituted imidazolyloxobenzopyran
carboxaldehyde and derivs.)

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IT	474950-98-6P	474951-00-3P	474951-02-5P	474951-04-7P	474951-07-0P
	474951-09-2P	474951-11-6P			

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent)

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IT	474951-13-8P	474951-15-0P	474951-27-4P	474951-29-6P	474951-31-0P
	474951-52-5P				

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

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(Preparation and antitumor activity of substituted imidazolyloxobenzopyran
carboxaldehyde and derivs.)

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IT 62-53-3, Aniline, reactions 68-11-1, reactions 95-54-5,
o-Phenylenediamine, reactions 95-55-6, o-Aminophenol 100-63-0,

Phenylhydrazine 104-94-9, 4-Methoxyphenylamine 106-40-1,
4-Bromophenylamine 106-49-0, 4-Methylphenylamine, reactions 109-89-7,
Diethyl amine, reactions 110-89-4, Piperidine, reactions 110-91-8,
Morpholine, reactions 119-26-6, 2,4-Dinitrophenylhydrazine 123-30-8,
4-Hydroxyphenylamine 134-81-6, Benzil 137-07-5, o-Aminothiophenol
504-29-0, 2-Pyridinylamine 212193-28-7

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation and antitumor activity of substituted imidazolyloxobenzopyran
carboxaldehyde and derivs.)

IT 474951-33-2P 474951-35-4P 474951-37-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)

(preparation and antitumor activity of substituted imidazolyloxobenzopyran
carboxaldehyde and derivs.)

IT 474951-17-2P 474951-19-4P 474951-21-8P 474951-23-0P 474951-25-2P

474951-42-3P 474951-44-5P 474951-46-7P 474951-48-9P 474951-50-3P

474951-54-7P 474951-56-9P 474951-58-1P 474951-60-5P

474951-62-7P 474951-64-9P 474951-67-2P 474951-69-4P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation and antitumor activity of substituted imidazolyloxobenzopyran
carboxaldehyde and derivs.)

RE.CNT 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

- (1) Abdel-Rahman, A; Chem Papers 1999, V53, P323 HCAPLUS
- (2) Atta, S; Arzneim-Forsch 1993, V43, P1354 HCAPLUS
- (3) Burres, N; J Nat Prod 1992, V55, P1582 HCAPLUS
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- (5) Elespuru, R; Cancer Res 1983, V43, P2819 HCAPLUS
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- (10) Matsukura, M; Chem Pharm Bull 1992, V40, P1823 HCAPLUS
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- (14) Schoenberg, A; J Am Chem Soc 1953, V75, P4992
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- (16) Suffness, M; Methods Plant Biochem 1991, V6, P71 HCAPLUS
- (17) Sugiyama, H; J Nat, Prod 1985, V48, P869 HCAPLUS
- (18) Tajima, M; 1995 HCAPLUS
- (19) Tajima, M; JP 07-118240 1995 HCAPLUS
- (20) Varoli, L; Pharmazie 1997, V52, P578 HCAPLUS
- (21) Wang, Y; J Org Chem 1997, V62, P7288 HCAPLUS
- (22) Wawzonek, S; Heterocyclic Compounds 1951, V2, P229

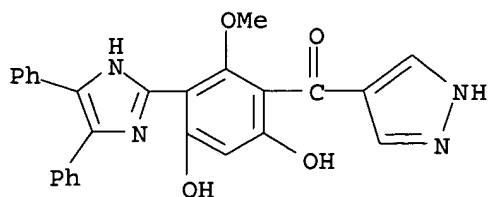
IT **474951-62-7P**

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation and antitumor activity of substituted imidazolyloxobenzopyran
carboxaldehyde and derivs.)

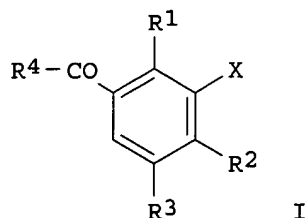
RN 474951-62-7 HCAPLUS

CN Methanone, [3-(4,5-diphenyl-1H-imidazol-2-yl)-4,6-dihydroxy-2-
methoxyphenyl]-1H-pyrazol-4-yl- (9CI) (CA INDEX NAME)



L12 ANSWER 2 OF 8 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 2000:645803 HCAPLUS
 DN 133:218862
 ED Entered STN: 15 Sep 2000
 TI Herbicidal mixture containing a 3-heterocyclyl-substituted benzoyl derivative and an adjuvant
 IN Bratz, Matthias; Berghaus, Rainer; Otten, Martina; Sievernich, Bernd; Kibler, Elmar; Vantieghem, Herve
 PA Basf Aktiengesellschaft, Germany
 SO PCT Int. Appl., 26 pp.
 CODEN: PIXXD2
 DT Patent
 LA German
 IC ICM A01N043-80
 ICS A01N043-78
 CC 5-3 (Agrochemical Bioregulators)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000053014	A1	20000914	WO 2000-EP1641	20000228
	W:		AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM		
	RW:		GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG		
	EP 1158857	A1	20011205	EP 2000-920450	20000228
	EP 1158857	B1	20030423		
	R:		AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO		
	BR 2000008749	A	20020108	BR 2000-8749	20000228
	JP 2002538188	T2	20021112	JP 2000-603513	20000228
	AT 237937	E	20030515	AT 2000-920450	20000228
	NZ 514287	A	20030725	NZ 2000-514287	20000228
	PT 1158857	T	20030930	PT 2000-920450	20000228
	ES 2198301	T3	20040201	ES 2000-920450	20000228
	AU 772265	B2	20040422	AU 2000-41028	20000228
	BG 105874	A	20020430	BG 2001-105874	20010904
	US 6514910	B1	20030204	US 2001-914873	20010905
	ZA 2001008150	A	20021004	ZA 2001-8150	20011004
PRAI	DE 1999-19909833	A	19990305		
	WO 2000-EP1641	W	20000228		
OS	MARPAT 133:218862				
GI					



AB The invention relates to a herbicidal mixture containing a 3-heterocyclyl-substituted benzoyl derivative I [R1, R2 = H, halo, C1-6 alkyl, alkylthio, alkylsulfinyl, alkylsulfonyl, alkyl halide, alkoxy or haloalkoxy; R3 = H, halo or C1-6 alkyl; X = (un)substituted isoxazolyl, 4,5-dihydroisoxazolyl or thiazolyl; R4 = (un)substituted pyrazolyl]. The 2nd component of the mixture is an adjuvant, such as C1-5-alkyl C5-22 alkanoate, C10-20 carboxylic acid, partial phosphoric ester or partial sulfuric acid ester of a monohydroxy functional polyalkylether and optionally a alkyl polyoxyalkylene polyether. The adjuvants enhance the activity of I.

ST herbicide benzoyl deriv activity enhancing adjuvant

IT Fatty acids, biological studies

RL: AGR (Agricultural use); MOA (Modifier or additive use); BIOL (Biological study); USES (Uses)

(C10-20; activity-enhancing adjuvants for benzoyl derivative herbicide)

IT Alcohols, biological studies

RL: AGR (Agricultural use); MOA (Modifier or additive use); BIOL (Biological study); USES (Uses)

(C9-11, ethoxylated; activity-enhancing adjuvant for benzoyl derivative herbicide)

IT Carboxylic acids, biological studies

RL: AGR (Agricultural use); MOA (Modifier or additive use); BIOL (Biological study); USES (Uses)

(alkyl esters; activity-enhancing adjuvants for benzoyl derivative herbicide)

IT Herbicides

(comps. containing benzoyl derivative herbicides and activity-enhancing adjuvants)

IT Paraffin oils

RL: AGR (Agricultural use); MOA (Modifier or additive use); BIOL (Biological study); USES (Uses)

(emulsifier-containing, Atplus; activity-enhancing adjuvant for benzoyl derivative herbicide)

IT 112-39-0, Methyl palmitate 112-62-9, Methyl oleate 112-80-1, Oleic acid, biological studies 26183-52-8, Lutensol ON 110 80449-87-2, Klearfac AA 270 107119-88-0, Lutensit A-EP 128088-09-5, Plurafac LF 700 201491-13-6, AG 6202

RL: AGR (Agricultural use); MOA (Modifier or additive use); BIOL (Biological study); USES (Uses)

(activity-enhancing adjuvant for benzoyl derivative herbicide)

IT 182060-67-9 182060-76-0 210631-68-8

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses) (herbicidal composition containing activity-enhancing adjuvant and)

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

(1) Basf Ag; WO 9626206 A 1996 HCAPLUS

(2) Basf Corp; EP 0356812 A 1990 HCAPLUS

(3) Hazen, J; US 4834908 A 1989 HCAPLUS

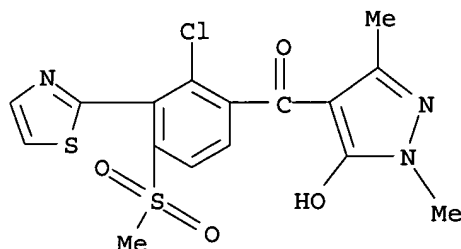
IT 182060-67-9

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)

(herbicidal composition containing activity-enhancing adjuvant and)

RN 182060-67-9 HCAPLUS

CN Methanone, [2-chloro-4-(methylsulfonyl)-3-(2-thiazolyl)phenyl] (5-hydroxy-1,3-dimethyl-1H-pyrazol-4-yl)- (9CI) (CA INDEX NAME)



L12 ANSWER 3 OF 8 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 1999:811030 HCAPLUS

DN 132:20093

ED Entered STN: 24 Dec 1999

TI Synergistic herbicidal mixtures.

IN Sievernich, Bernd; Landes, Max; Kibler, Elmar; Von Deyn, Wolfgang; Walter, Helmut; Otten, Martina; Westphalen, Karl-Otto; Vantieghem, Herve

PA BASF Aktiengesellschaft, Germany

SO PCT Int. Appl., 98 pp.

CODEN: PIXXD2

DT Patent

LA German

IC ICM A01N043-80

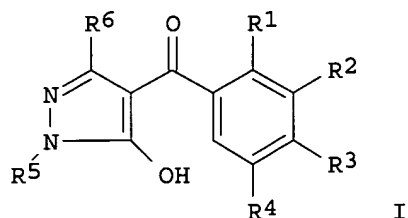
ICS A01N043-78; A01N043-80; A01N061-00; A01N043-78; A01N061-00

CC 5-3 (Agrochemical Bioregulators)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9965314	A1	19991223	WO 1999-EP4055	19990612
	W: AL, AU, AZ, BG, BR, BY, CA, CN, CZ, EE, GE, HU, ID, IL, IN, JP, KG, KR, KZ, LT, LV, MK, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TM, TR, UA, US, UZ, VN, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
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	AU 9946089	A1	20000105	AU 1999-46089	19990612
	AU 758799	B2	20030327		
	BR 9911313	A	20010313	BR 1999-11313	19990612
	EP 1087664	A1	20010404	EP 1999-929190	19990612
	EP 1087664	B1	20030528		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
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	AT 241271	E	20030615	AT 1999-929190	19990612
	PT 1087664	T	20031031	PT 1999-929190	19990612
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	ES 2200527	T3	20040301	ES 1999-929190	19990612
	NO 2000006315	A	20001212	NO 2000-6315	20001212
	US 6534444	B1	20030318	US 2000-719429	20001212
	BG 105144	A	20011231	BG 2001-105144	20010111

	ZA 2001000395	A	20020115	ZA 2001-395	20010115
	US 2003203819	A1	20031030	US 2003-349094	20030123
PRAI	DE 1998-19826431	A	19980616		
	WO 1999-EP4055	W	19990612		
	US 2000-719429	A3	20001212		
OS	MARPAT 132:20093				
GI					



AB The invention relates to synergistic herbicidal mixts. containing at least one benzoylpyrazole derivative I [R1, R3 = H, halo, alkyl, alkyl halide, alkoxy, alkoxy halide, alkylthio, alkyl sulfinyl, or alkyl sulfonyl; R2= (un)substituted thiazole-2-yl, thiazole-4-yl, thiazole-5-yl, isoxazol-3-yl, isoxazol-4-yl, isoxazol-5-yl, 4,5-dihydroisoxazol-3-yl, 4,5-dihydroisoxazol-4-yl or 4,5-dihydroisoxazol-5-yl; R4 = H, halo or alkyl; R5 = alkyl; R6 = H or alkyl] or I salts and at least one herbicide from the group of acetyl CoA carboxylase inhibitors (ACC), acetolactate synthase inhibitors (ALS), amides, auxin herbicides, auxin transport inhibitors, carotenoid biosynthesis inhibitors, enolpyruvyl-shikimate-3-phosphate synthase inhibitors (ESPS), glutamine synthetase inhibitors, lipid biosynthesis inhibitors, mitosis inhibitors, protoporphyrinogen-IX-oxidase inhibitors, photosynthesis inhibitors, synergistic agents, growth substances, cell wall biosynthesis inhibitors and various other herbicides.

ST synergism herbicide benzoylpyrazole derivs mixt

IT Herbicides

(synergistic; compns. containing benzoylpyrazole derivs.)

IT	252190-49-1	252190-50-4	252190-51-5	252190-52-6	252190-53-7
	252190-54-8	252190-55-9	252190-56-0	252190-57-1	252190-58-2
	252190-59-3	252190-60-6	252190-61-7	252190-62-8	
	252190-63-9	252190-64-0	252190-65-1	252190-66-2	
	252190-67-3	252190-68-4	252190-69-5	252190-70-8	252190-71-9
	252190-72-0	252190-73-1	252190-74-2	252190-75-3	252190-76-4
	252190-77-5	252190-78-6	252190-79-7	252190-80-0	252190-81-1
	252190-82-2	252190-83-3	252190-84-4	252190-85-5	252190-86-6
	252190-87-7	252190-88-8	252190-89-9	252190-90-2	252190-91-3
	252190-92-4	252190-93-5	252190-94-6	252190-95-7	252190-96-8
	252190-97-9	252190-98-0	252190-99-1	252191-00-7	252191-01-8
	252191-02-9	252191-03-0			

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)

(synergistic herbicide)

IT	61-82-5D, 1H-1,2,4-Triazol-3-amine, mixts. with benzoylpyrazole derivs.	
	75-99-0D, mixts. with benzoylpyrazole derivs.	85-00-7D, mixts. with benzoylpyrazole derivs.
	88-85-7D, mixts. with benzoylpyrazole derivs.	
	93-65-2D, mixts. with benzoylpyrazole derivs.	93-71-0D, mixts. with benzoylpyrazole derivs.
	94-74-6D, mixts. with benzoylpyrazole derivs.	
	94-75-7D, mixts. with benzoylpyrazole derivs.	94-81-5D, mixts. with benzoylpyrazole derivs.
	94-82-6D, mixts. with benzoylpyrazole derivs.	
	95-06-7D, mixts. with benzoylpyrazole derivs.	101-21-3D, mixts. with benzoylpyrazole derivs.

benzoylpyrazole derivs. 101-27-9D, mixts. with benzoylpyrazole derivs.
101-42-8D, mixts. with benzoylpyrazole derivs. 120-36-5D, mixts. with
benzoylpyrazole derivs. 122-34-9D, mixts. with benzoylpyrazole derivs.
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RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
 (synergistic herbicides)

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RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(synergistic herbicides)

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

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- (3) Idemitsu Kosan Co; WO 9723135 A 1997 HCAPLUS
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- (5) Nissan Chem Ind Ltd; JP 06-211610 A 1994
- (6) Takahashi Akihiro; WO 9828981 A 1998 HCAPLUS

IT 252190-61-7

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(synergistic herbicide)

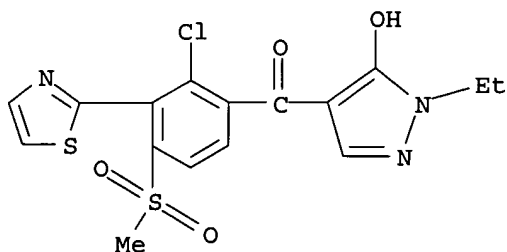
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CM 1

CRN 182060-80-6

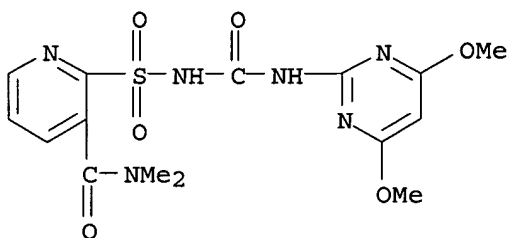
CMF C16 H14 Cl N3 O4 S2



CM 2

CRN 111991-09-4

CMF C15 H18 N6 O6 S



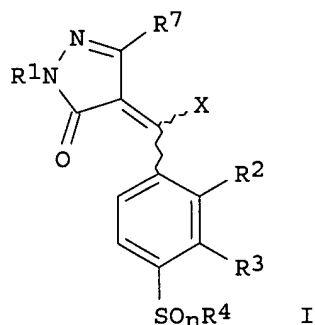
L12 ANSWER 4 OF 8 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 1999:354487 HCAPLUS
 DN 131:5255
 ED Entered STN: 09 Jun 1999
 TI Preparation of benzyldenepyrazolones as herbicides.
 IN Rheinheimer, Joachim; Witschel, Matthias; Engel, Stefan; Baumann, Ernst;
 Von Deyn, Wolfgang; Hill, Regina Luise; Mayer, Guido; Misslitz, Ulf;
 Wagner, Oliver; Otten, Martina; Westphalen, Karl-Otto; Walter, Helmut
 PA BASF Aktiengesellschaft, Germany
 SO PCT Int. Appl., 58 pp.
 CODEN: PIXXD2
 DT Patent
 LA German
 IC ICM C07D231-18
 ICS C07D231-16; A01N043-56
 CC 28-8 (Heterocyclic Compounds (More Than One Hetero Atom))
 Section cross-reference(s): 5

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9926930	A2	19990603	WO 1998-EP7099	19981106
	WO 9926930	A3	19990819		
	W:	AL, AU, BG, BR, BY, CA, CN, CZ, GE, HU, ID, IL, JP, KR, KZ, LT, LV, MK, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TR, UA, US, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE			
	CA 2310087	AA	19990603	CA 1998-2310087	19981106
	AU 9916670	A1	19990615	AU 1999-16670	19981106

Searched by Noble Jarrell

AU 757752	B2	20030306		
BR 9814232	A	20001003	BR 1998-14232	19981106
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R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO				
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OS MARPAT 131:5255				
GI				



AB Title compds. [I; R1, R6 = (substituted) alkyl; R2 = (substituted) alkyl, alkoxy, halo, nitro, cyano; R3 = H, halo, nitro, cyano, NR5R6, OCOR5, NR5COR6, CO2R5, COSR5, CONR5R6, alkoxyiminoalkyl, alkoxycarbonyl, (substituted) alkyl, alkoxy, alkylthio, alkenyl, Ph, PhO, 5- 6 membered (unsatd.) heterocyclyl; R4 = alkyl, haloalkyl; R3R4 = (substituted) (unsatd.) 2-3 membered bridge which can contain 1 S, SO, or SO2; R5 = H, (substituted) alkyl; R7 = H, alkyl, haloalkyl; n = 0, 1, 2; X = H, Cl, Br], were prepared. Thus, [2-chloro-3-(4,5-dihydroisoxazol-3-yl)-4-methylsulfonylphenyl] (5-hydroxy-1-methyl-1H-pyrazol-4-yl) ketone was refluxed 7 h with POCl3 and cat. DMF to give cis-4-[chloro[2-chloro-3-(4,5-dihydroisoxazol-3-yl)-4-methylsulfonylphenyl]methylene]-2-methyl-2,4-dihydropyrazol-3-one. The 2-Et derivative of the above compound postemergent gave >98% control of a variety of weeds while leaving corn unaffected.

ST benzylidenepyrazolone prepn herbicide; pyrazolone benzylidene prepn herbicide; chlorodihydroisoxazolylmethylsulfonylphenylmethylenemethyldihydropyrazolone prepn herbicide

IT Herbicides
(preparation of benzylidenepyrazolones as herbicides)

IT 225648-12-4P 225648-23-7P 225648-30-6P 225648-36-2P 225648-42-0P
225648-48-6P 225648-54-4P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of benzylidenepyrazolones as herbicides)

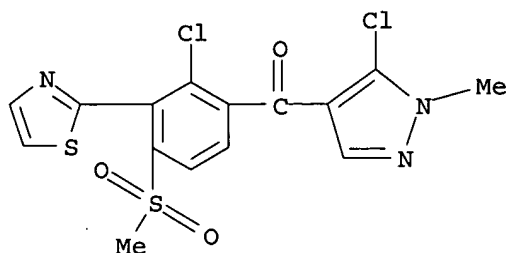
IT 210576-74-2
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of benzylidenepyrazolones as herbicides)

IT 225648-48-6P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of benzylidenepyrazolones as herbicides)

RN 225648-48-6 HCAPLUS

CN Methanone, (5-chloro-1-methyl-1H-pyrazol-4-yl) [2-chloro-4-(methylsulfonyl)-3-(2-thiazolyl)phenyl]- (9CI) (CA INDEX NAME)



L12 ANSWER 5 OF 8 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 1998:509195 HCAPLUS

DN 129:136166

ED Entered STN: 17 Aug 1998

TI Preparation of 4-(3-heterocyclylbenzoyl)pyrazoles as herbicides.

IN Von Deyn, Wolfgang; Hill, Regina Luise; Baumann, Ernst; Engel, Stefan; Mayer, Guido; Rheinheimer, Joachim; Witschel, Matthias; Misslitz, Ulf; Wagner, Oliver; Otten, Martina; Walter, Helmut; Westphalen, Karl-Otto

PA BASF A.-G., Germany

SO PCT Int. Appl., 393 pp.

CODEN: PIXXD2

DT Patent

LA German

IC ICM C07D413-10

ICS A01N043-72; A01N043-48; C07D417-10; C07D409-10; C07D405-10;

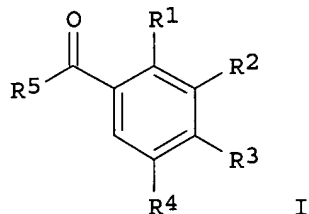
C07D401-10; C07D403-10; C07D411-10; C07D231-20; C07D231-24

CC 28-8 (Heterocyclic Compounds (More Than One Hetero Atom))

FAN.CNT 3

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9831682	A1	19980723	WO 1998-EP70	19980108
W: AL, AU, AZ, BG, BR, BY, CA, CN, CZ, EE, GE, HU, ID, IL, JP, KG, KR, KZ, LT, LV, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TM, TR, UA, US, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
AU 9866133	A1	19980807	AU 1998-66133	19980108
AU 742514	B2	20020103		
EP 958292	A1	19991124	EP 1998-907930	19980108
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, SI, LT, LV, FI, RO				
EE 9900292	A	20000215	EE 1999-292	19980108
BR 9806917	A	20000418	BR 1998-6917	19980108
NZ 336640	A	20010330	NZ 1998-336640	19980108
JP 2001508459	T2	20010626	JP 1998-533621	19980108
CN 1104429	B	20030402	CN 1998-802992	19980108
TW 513414	B	20021211	TW 1998-87100464	19980115
US 6165944	A	20001226	US 1998-91292	19980616
NO 9903522	A	19990916	NO 1999-3522	19990716

US 2002025910 A1 20020228 US 2000-748006 20001227
 PRAI DE 1997-19701446 A 19970117
 DE 1997-19740494 A 19970915
 WO 1998-EP70 W 19980108
 US 1998-91300 A1 19980616
 OS MARPAT 129:136166
 GI



AB Title compds. [I; R1, R3 = H, NO2, halo, cyano, alkyl, haloalkyl, alkoxy, haloalkoxy, alkylthio, haloalkylthio, alkylsulfinyl, haloalkylsulfinyl, alkylsulfonyl, haloalkylsulfonyl, aminosulfonyl, N-alkylaminosulfonyl, N,N-dialkylaminosulfonyl, N-alkylsulfonylamino, N-haloalkylsulfonylamino, N-alkyl-N-alkylsulfonylamino or N-alkyl-N-haloalkylsulfonylamino; R2 = (substituted) 5-6 membered heterocyclyl containing 1-4 heteroatoms selected from O, S, N; R4 = H, halo, alkyl; R5 = substituted pyrazol-4-yl], were prepared as herbicides (no data). Thus, Me 2-chloro-3-hydroxyiminomethyl-4-methylsulfonylbenzoate (preparation given) in CH2Cl2 was treated with ethylene, NaOAc, and aqueous NaOCl to give 90% Me 2-chloro-3-(4,5-dihydroisoxazol-3-yl)-4-methylsulfonylbenzoate. This was converted to the acid chloride, which was coupled with 5-hydroxy-1-methylpyrazole in dioxane/Et3N to give 92% 4-[2-chloro-3-(4,5-dihydroisoxazol-3-yl)-4-methylsulfonylbenzoyl]-5-hydroxy-1-methyl-1H-pyrazole.

ST heterocyclylbenzoylpyrazole prepn herbicide; pyrazole heterocyclylbenzoyl prepn herbicide

IT Herbicides

(preparation of 4-(3-heterocyclylbenzoyl)pyrazoles as herbicides)

IT 210577-17-6P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(preparation of 4-(3-heterocyclylbenzoyl)pyrazoles as herbicides)

IT 181997-71-7P 198272-51-4P 198272-54-7P 198272-55-8P 210575-05-6P
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 210577-31-4P 210577-32-5P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of 4-(3-heterocyclylbenzoyl)pyrazoles as herbicides)

IT 74-85-1, Ethene, reactions 75-36-5, Acetyl chloride 115-07-1, 1-Propene, reactions 122-51-0, Triethyl orthoformate 124-68-5, 2,2-Dimethylethanolamine 1235-21-8 1576-35-8 2757-23-5, Chlorocarbonylsulfenyl chloride 4009-98-7, Methoxymethyltriphenylphosphonium chloride 33641-15-5, 5-Hydroxy-1-methylpyrazole 35613-84-4 82961-52-2 107296-34-4, 1-Ethyl-5-hydroxypyrazole 196819-99-5, Methyl 2,4-dichloro-3-formylbenzoate 196820-01-6

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of 4-(3-heterocyclylbenzoyl)pyrazoles as herbicides)

IT 106904-09-0P 120100-04-1P 120100-44-9P 181997-72-8P 181997-73-9P
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 210578-16-8P 210578-17-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of 4-(3-heterocyclylbenzoyl)pyrazoles as herbicides)

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

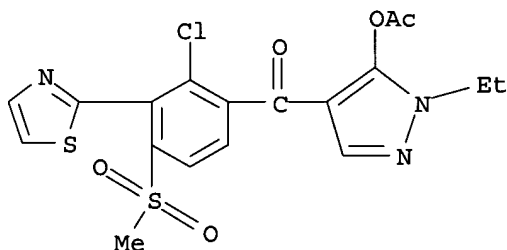
- (1) Basf Aktiengesellschaft; WO 9626206 A 1996 HCAPLUS
- (2) Nissan Chemical Industries Ltd; GB 2122188 A 1984 HCAPLUS
- (3) Nissan Chemical Industries Ltd; EP 0203428 A 1986 HCAPLUS
- (4) Toshiaki, Y; US 4460597 A 1984 HCAPLUS

IT 210575-35-2P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of 4-(3-heterocyclylbenzoyl)pyrazoles as herbicides)

RN 210575-35-2 HCAPLUS

CN Methanone, [5-(acetyloxy)-1-ethyl-1H-pyrazol-4-yl][2-chloro-4-(methylsulfonyl)-3-(2-thiazolyl)phenyl]- (9CI) (CA INDEX NAME)



L12 ANSWER 6 OF 8 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 1998:509194 HCAPLUS

DN 129:136165

ED Entered STN: 17 Aug 1998

TI Preparation of heterocyclylbenzoylpyrazoles and related compounds as herbicides.

IN Von Deyn, Wolfgang; Hill, Regina Luise; Kardorff, Uwe; Baumann, Ernst; Engel, Stefan; Mayer, Guido; Witschel, Matthias; Rack, Michael; Gotz, Norbert; Gebhardt, Joachim; Misslitz, Ulf; Walter, Helmut; Westphalen, Karl-Otto; Otten, Martina; Rheinheimer, Joachim; et al.

PA BASF A.-G., Germany

SO PCT Int. Appl., 173 pp.

CODEN: PIXXD2

DT Patent

LA German

IC ICM C07D413-10

ICS A01N043-72; C07D498-10; C07D417-10; C07D261-04; C07D291-04;
C07D273-00; C07D263-10; C07D261-20; C07D277-10; C07D277-34;
C07D403-10; C07D419-10; C07D498-10; C07D311-00; C07D261-00

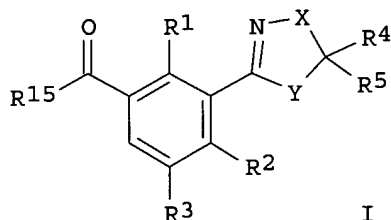
CC 28-8 (Heterocyclic Compounds (More Than One Hetero Atom))

Section cross-reference(s): 5

FAN.CNT 3

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9831681	A1	19980723	WO 1998-EP69	19980108
W: AL, AU, AZ, BG, BR, BY, CA, CN, CZ, EE, GE, HU, ID, IL, JP, KG, KR, KZ, LT, LV, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TM, TR, UA, US, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				

AU 9860929	A1	19980807	AU 1998-60929	19980108
EP 958291	A1	19991124	EP 1998-905274	19980108
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, SI, LT, LV, FI, RO				
EE 9900290	A	20000215	EE 1999-290	19980108
BR 9806778	A	20000516	BR 1998-6778	19980108
JP 2001508458	T2	20010626	JP 1998-533620	19980108
NZ 336992	A	20010831	NZ 1998-336992	19980108
CN 1117750	B	20030813	CN 1998-802797	19980108
TW 505640	B	20021011	TW 1998-87100502	19980115
ZA 9800362	A	19990716	ZA 1998-362	19980116
ZA 9800363	A	19990716	ZA 1998-363	19980116
NO 9903521	A	19990915	NO 1999-3521	19990716
US 2002025910	A1	20020228	US 2000-748006	20001227
PRAI DE 1997-19701446	A	19970117		
WO 1998-EP69	W	19980108		
US 1998-91300	A1	19980616		
OS MARPAT 129:136165				
GI				



AB Title compds. [I; R1, R2 = H, NO₂, halo, cyano, alkyl, haloalkyl, alkoxy, haloalkoxy, alkylthio, haloalkylthio, alkylsulfinyl, haloalkylsulfinyl, alkylsulfonyl, haloalkylsulfonyl; R3 = H, halo, alkyl; R4, R5 = H, halo, cyano, NO₂, alkyl, alkoxyalkyl, dialkoxyalkyl, dialkylaminoalkyl, (substituted), Ph, PhCH₂, etc.; R4R5 = O, S; X = O, S, NR₉, CO, CR₁₀R₁₁; R4R₉ or R4R₁₀ or R5R₁₂ or R5R₁₃ = (substituted) (interrupted) alkylene; Y = O, S, NR₁₂, CO, CR₁₃R₁₄; R₉, R₁₂ = H, alkyl; R₁₀-R₁₄ = H, alkyl, haloalkyl, alkoxycarbonyl, haloalkoxycarbonyl, CONR₇R₈; R₁₅ = substituted 4-pyrazolyl], were prepared as herbicides and plant growth regulators (no data). Thus, 5-hydroxy-1-methylpyrazole in dioxane was treated with 2-chloro-3-(4,5-dihydroisoxazol-3-yl)-4-methylsulfonylbenzoyl chloride (preparation given) in dioxane and with Et₃N in dioxane followed by 2 h stirring to give 92% 4-[2-chloro-3-(4,5-dihydroisoxazol-3-yl)-4-methylsulfonylbenzoyl]-5-hydroxy-1-methyl-1H-pyrazole.

ST heterocyclylbenzoylpyrazole prepn herbicide; pyrazole heterocyclylbenzoyl prepn herbicide

IT	210576-18-4P	210576-20-8P	210576-22-0P	210576-24-2P	210576-26-4P
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RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of heterocyclylbenzoylpyrazoles and related compds. as herbicides)

IT 75-36-5, Acetyl chloride 115-07-1, 1-Propene, reactions 116-11-0,
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RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation of heterocyclylbenzoylpyrazoles and related compds. as herbicides)

IT 106904-09-0P 120100-04-1P 120100-44-9P 181997-71-7P 181997-72-8P
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 210632-22-7P 210632-23-8P 210632-24-9P 210632-26-1P 210632-27-2P
 210632-28-3P 210632-29-4P 210632-30-7P 210632-31-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of heterocyclylbenzoylpyrazoles and related compds. as herbicides)

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

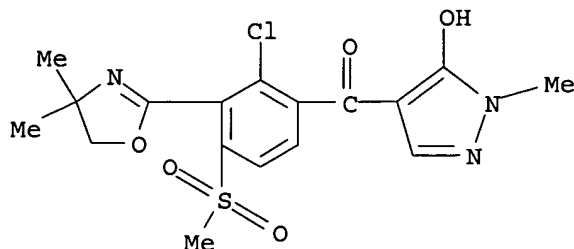
- (1) Basf Ag; WO 9626206 A 1996 HCAPLUS
- (2) Nissan Chemical Ind Ltd; EP 0203428 A 1986 HCAPLUS
- (3) Sankyo Co; DE 2513750 A 1975 HCAPLUS
- (4) Sankyo Co; FR 2316235 A 1977 HCAPLUS

IT 210576-89-9P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of heterocyclylbenzoylpyrazoles and related compds. as herbicides)

RN 210576-89-9 HCAPLUS

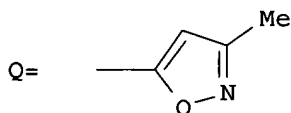
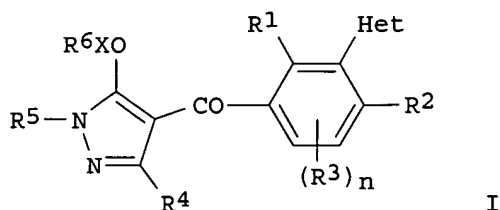
CN Methanone, [2-chloro-3-(4,5-dihydro-4,4-dimethyl-2-oxazolyl)-4-(methylsulfonyl)phenyl](5-hydroxy-1-methyl-1H-pyrazol-4-yl) - (9CI) (CA INDEX NAME)



L12 ANSWER 7 OF 8 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 1997:740213 HCAPLUS
 DN 127:346402
 ED Entered STN: 24 Nov 1997
 TI Preparation of novel heterocycle-substituted benzene derivatives and herbicides
 IN Adachi, Hiroyuki; Yamaguchi, Masao; Miyahara, Osamu; Tanaka, Katsunori; Kawana, Takashi; Takahashi, Akihiro; Koguchi, Masami; Yamagishi, Hideki
 PA Nippon Soda Co., Ltd., Japan
 SO PCT Int. Appl., 154 pp.
 CODEN: PIXXD2
 DT Patent
 LA Japanese
 IC ICM C07D231-20
 ICS C07D403-10; C07D413-10; C07D417-10; A01N043-56; A01N043-76; A01N043-78; A01N043-80; A01N043-82
 CC 28-10 (Heterocyclic Compounds (More Than One Hetero Atom))
 Section cross-reference(s): 5

FAN.CNT 8

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9741105	A1	19971106	WO 1997-JP1423	19970424
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
JP 10237072	A2	19980908	JP 1997-38505	19970206
AU 9724058	A1	19971119	AU 1997-24058	19970424
CN 1216534	A	19990512	CN 1997-194086	19970424
WO 9821187	A1	19980522	WO 1997-JP3736	19971016
W: JP RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
ZA 9709402	A	19980520	ZA 1997-9402	19971021
PRAI JP 1996-131170	A	19960426		
JP 1996-317154	A	19961113		
JP 1996-356866	A	19961226		
WO 1997-JP1423	W	19970424		
OS MARPAT 127:346402				
GI				



AB Benzoylpyrazole derivs. represented by general formula [I; R1, R2, R3 = halo, C1-6 alkyl, C1-6 alkoxy, NO2, cyano, C1-6 haloalkyl, haloalkoxy, or alkylthio, alkylsulfinyl, or alkylsulfonyl; n = 0, 1, 2; Het = an optionally substituted saturated or unsatd. 5-membered heterocyclic group which is bonded to the benzene ring at a carbon atom and which contains one to four hetero-atoms selected from among N, O and S and is substituted with R7 and R8; R4 = hydrogen, C1-6 alkyl, haloalkyl, or hydroxyalkyl, C1-6 alkoxy-C1-6 alkyl; R5 = C1-6 alkyl, C3-8 cycloalkyl, (un)substituted Ph; X = SO2, (CH2)mCO, optionally alkyl-substituted C1-6 alkylene, a single bond; wherein m = 0, 1-3; R6 = optionally substituted phenyl] are prepared. The above compds. exhibit an excellent herbicidal activity with good selectivity for weeds at a low dosage. Thus, 4-[2,4-dichloro-3-(3-methyl-1,2-isoxazol-5-yl)benzoyl]-1,3-dimethyl-5-hydroxypyrazole was dissolved in CH2Cl2, followed by adding an aqueous K2CO3, p-toluenesulfonyl chloride, and benzyltrimethylammonium chloride in this order, and the resulting mixture was stirred at room temperature overnight to give I (R1 = R2

=

C1, R3 = H, R4 = R5 = Me, R6X = p-toluenesulfonyl, Het = Q). I (R1 = F, R2 = SO2Me, R3 = R4 = H, R5 = Me, R6X = p-toluenesulfonyl, Het = Q) at 250 g/ha postemergence controlled 100% Abutilon theophrasti, Echinochloa crus-galli, Xanthium pensylvanicum, and Setaria faberii and gave no damage to corn seedlings.

ST isoxazolylbenzoylpyrazole prepn herbicide; benzoylpyrazole isoxazolyl prepn herbicide

IT Herbicides

(preparation of novel heterocycle-substituted benzene derivs. as herbicides)

IT	198271-92-0P	198271-93-1P	198271-94-2P	198271-95-3P	198271-96-4P
	198271-97-5P	198271-98-6P	198271-99-7P	198272-00-3P	198272-01-4P
	198272-02-5P	198272-03-6P	198272-04-7P	198272-05-8P	198272-06-9P
	198272-07-0P	198272-08-1P	198272-09-2P	198272-10-5P	198272-11-6P
	198272-12-7P	198272-13-8P	198272-14-9P	198272-15-0P	198272-16-1P
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	198272-23-0P	198272-24-1P	198272-25-2P	198272-26-3P	198272-27-4P
	198272-28-5P	198272-29-6P	198272-30-9P	198272-31-0P	198272-32-1P
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	198272-38-7P	198272-39-8P	198272-40-1P	198272-41-2P	198272-42-3P
	198272-43-4P	198272-44-5P	198272-45-6P	198272-46-7P	198272-47-8P
	198273-15-3P	198273-16-4P	198273-92-6P		

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of novel heterocycle-substituted benzene derivs. as herbicides)

IT 60-34-4, Methyl hydrazine 68-12-2, Dimethylformamide, reactions
 70-11-1, Phenacyl bromide 74-93-1, Methanethiol, reactions 75-16-1,
 Methylmagnesium bromide 78-95-5, Chloroacetone 79-24-3, Nitroethane
 79-46-9, 2-Nitropropane 98-59-9, p-Toluenesulfonyl chloride 100-39-0,
 Benzyl bromide 108-05-4, Acetic acid ethenyl ester, reactions
 108-22-5, Isopropenyl acetate 108-24-7, Acetic anhydride 609-02-9,
 Dimethyl methylmalonate 1694-31-1, tert-Butyl acetoacetate 2208-07-3,
 Ethyl acetimidate hydrochloride 4637-24-5 5188-07-8, Sodium
 methylmercaptide 5470-11-1, Hydroxylamine hydrochloride 7803-57-8,
 Hydrazine hydrate 33641-16-6, 5-Hydroxy-1-methylpyrazole hydrochloride
 36635-61-7, p-Toluenesulfonylmethylisocyanide 106903-47-3,
 1-Ethyl-5-hydroxypyrazole hydrochloride 120100-50-7 182061-44-5
 196819-94-0 196820-01-6, 3-Methoxycarbonyl-2,6-dichlorobenzoyl chloride
 197165-73-4 198273-00-6 198273-01-7 198273-02-8 198273-03-9
 198273-04-0 198273-05-1 198273-06-2 198273-07-3 198273-08-4
 198273-09-5 198273-10-8 198273-11-9 198273-12-0, Methyl
 3-amino-2,4-dichlorobenzoate 198273-13-1, Methyl 3-cyano-2,4-
 dichlorobenzoate 198273-14-2, Methyl 2,4-dichloro-3-hydroxyiminobenzoate
 RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of novel heterocycle-substituted benzene derivs. as herbicides)

IT 181997-97-7P 182060-63-5P 196819-51-9P 196819-53-1P 196819-54-2P
 196819-55-3P 196819-57-5P 196819-68-8P 196819-99-5P 197165-33-6P
 197165-34-7P 197165-35-8P 197165-40-5P 197165-41-6P 197165-63-2P
 197165-65-4P 197165-66-5P 197165-67-6P 197165-68-7P 197165-69-8P
 197165-70-1P 197165-71-2P 197165-72-3P 198272-48-9P 198272-49-0P
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198272-64-9P 198272-65-0P 198272-66-1P 198272-67-2P
 198272-68-3P 198272-69-4P 198272-70-7P 198272-71-8P 198272-72-9P
 198272-73-0P 198272-74-1P 198272-75-2P 198272-76-3P 198272-77-4P
 198272-78-5P 198272-79-6P 198272-80-9P 198272-81-0P 198272-82-1P
 198272-83-2P 198272-84-3P 198272-85-4P 198272-86-5P 198272-87-6P
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 198272-98-9P 198272-99-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)

(preparation of novel heterocycle-substituted benzene derivs. as herbicides)

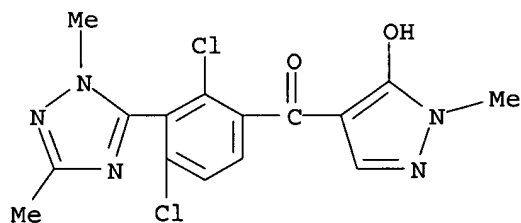
IT **198272-64-9P**

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)

(preparation of novel heterocycle-substituted benzene derivs. as herbicides)

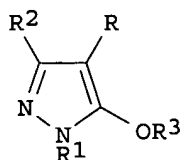
RN 198272-64-9 HCAPLUS

CN Methanone, [2,4-dichloro-3-(1,3-dimethyl-1H-1,2,4-triazol-5-yl)phenyl] (5-
 hydroxy-1-methyl-1H-pyrazol-4-yl)- (9CI) (CA INDEX NAME)

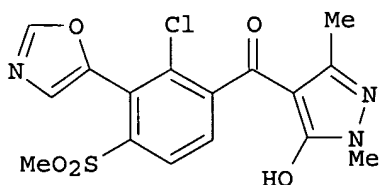


L12 ANSWER 8 OF 8 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 1996:616370 HCAPLUS
 DN 125:247812
 ED Entered STN: 17 Oct 1996
 TI Preparation of 4-benzoylpyrazoles as herbicides
 IN Von Deyn, Wolfgang; Hill, Regina Luise; Kardorff, Uwe; Engel, Stefan;
 Otten, Martina; Vossen, Marcus; Plath, Peter; Rang, Harald; Harreus,
 Albrecht; et al.
 PA BASF A.-G., Germany
 SO PCT Int. Appl., 50 pp.
 CODEN: PIXXD2
 DT Patent
 LA German
 IC ICM C07D409-10
 ICS C07D413-10; C07D417-10; A01N043-56
 CC 28-8 (Heterocyclic Compounds (More Than One Hetero Atom))
 Section cross-reference(s): 5
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9626206	A1	19960829	WO 1996-EP635	19960214
	W: AU, BG, BR, CA, CN, CZ, EE, FI, GE, HU, JP, KR, LT, LV, MX, NO, NZ, PL, SG, SK, TR, UA, US, UZ, VN, AZ, BY, KG, KZ, RU, TJ, TM RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	CA 2210693	AA	19960829	CA 1996-2210693	19960214
	AU 9646655	A1	19960911	AU 1996-46655	19960214
	AU 710172	B2	19990916		
	BR 9607333	A	19971125	BR 1996-7333	19960214
	EP 811007	A1	19971210	EP 1996-902274	19960214
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE				
	CN 1175951	A	19980311	CN 1996-192084	19960214
	CN 1071757	B	20010926		
	JP 11500438	T2	19990112	JP 1996-525370	19960214
	EE 3486	B1	20010815	EE 1997-190	19960214
	PL 183233	B1	20020628	PL 1996-322277	19960214
	CZ 293254	B6	20040317	CZ 1997-2473	19960214
	ZA 9601444	A	19970825	ZA 1996-1444	19960223
	US 5846907	A	19981208	US 1997-875664	19970730
	BG 63503	B1	20020329	BG 1997-101825	19970808
	FI 9703471	A	19970822	FI 1997-3471	19970822
	NO 9703861	A	19971022	NO 1997-3861	19970822
	LT 4307	B	19980325	LT 1997-145	19970902
	LV 11895	B	19980320	LV 1997-177	19970923
PRAI	DE 1995-19506572	A	19950224		
	WO 1996-EP635	W	19960214		
OS	MARPAT 125:247812				
GI					



I



II

AB Title compds. [I; R = COZR4; R1 = alkyl; R2 = H, (halo)alkyl; R3 = H, alkyl- or -(alkyl)phenylsulfonyl; R4 = heterocyclyl; Z = (un)substituted 1,3-phenylene] were prepared Thus, 1,3-dimethyl-5-hydroxypyrazole was acylated by 2-chloro-4-methylsulfonyl-3-(5-oxazolyl)benzoyl chloride to give title compound II. Data for herbicidal activity of 2 I were given.

ST benzoylpyrazole prepn herbicide

IT Herbicides
(4-benzoylpyrazoles)

IT 182060-43-1P 182060-47-5P 182060-50-0P 182060-55-5P 182060-59-9P
182060-63-5P 182060-67-9P 182060-71-5P 182060-76-0P
182060-80-6P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of 4-benzoylpyrazoles as herbicides)

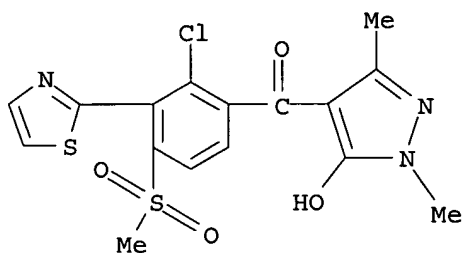
IT 151-00-8, Isobutyraldehyde oxime 5203-77-0, 1,3-Dimethyl-5-hydroxypyrazole 82961-52-2 105917-80-4 121359-48-6,
2-(Tributylstannyl)thiazole 182003-84-5 182061-44-5
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of 4-benzoylpyrazoles as herbicides)

IT 106904-09-0P 120100-04-1P 120100-44-9P 181997-71-7P 181997-72-8P
181997-73-9P 181997-74-0P 181997-75-1P 181997-76-2P 181997-77-3P
181997-78-4P 181997-79-5P 181997-80-8P 181997-81-9P 181997-82-0P
181997-83-1P 181997-84-2P 181997-85-3P 181997-86-4P 181997-87-5P
181997-88-6P 181997-89-7P 181997-90-0P 181997-91-1P 181997-92-2P
181997-93-3P 181997-94-4P 181997-95-5P 181997-96-6P 181997-97-7P
181997-98-8P 181997-99-9P 181998-00-5P 181998-01-6P 181998-02-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of 4-benzoylpyrazoles as herbicides)

IT 182060-67-9P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of 4-benzoylpyrazoles as herbicides)

RN 182060-67-9 HCAPLUS

CN Methanone, [2-chloro-4-(methylsulfonyl)-3-(2-thiazolyl)phenyl] (5-hydroxy-1,3-dimethyl-1H-pyrazol-4-yl)- (9CI) (CA INDEX NAME)



=> b uspatall

FILE 'USPATFULL' ENTERED AT 16:32:42 ON 22 JUL 2004

CA INDEXING COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'USPAT2' ENTERED AT 16:32:42 ON 22 JUL 2004

CA INDEXING COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

Searched by Noble Jarrell

=> d bib abs ind fhitrn hitrn l17 tot

L17 ANSWER 1 OF 6 USPATFULL on STN
 AN 2003:289060 USPATFULL
 TI Synergistically acting herbicidal mixtures
 IN Sievernich, Bernd, Iggelheim, GERMANY, FEDERAL REPUBLIC OF
 Landes, Max, Gonnheim, GERMANY, FEDERAL REPUBLIC OF
 Kibler, Elmar, Hassloch, GERMANY, FEDERAL REPUBLIC OF
 Deyn, Wolfgang Von, Neustadt, GERMANY, FEDERAL REPUBLIC OF
 Walter, Helmut, Obrigheim, GERMANY, FEDERAL REPUBLIC OF
 Otten, Martina, Ludwigshafen, GERMANY, FEDERAL REPUBLIC OF
 Westphalen, Karl-Otto, Speyer, GERMANY, FEDERAL REPUBLIC OF
 Vantieghem, Herve, Stutensee, GERMANY, FEDERAL REPUBLIC OF
 PI US 2003203819 A1 20031030
 AI US 2003-349094 A1 20030123 (10)
 RLI Division of Ser. No. US 2000-719429, filed on 12 Dec 2000, GRANTED, Pat.
 No. US 6534444 A 371 of International Ser. No. WO 1999-EP4055, filed on
 12 Jun 1999, UNKNOWN
 PRAI DE 1998-19826431 19980616
 DT Utility
 FS APPLICATION
 LREP KEIL & WEINKAUF, 1350 CONNECTICUT AVENUE, N.W., WASHINGTON, DC, 20036
 CLMN Number of Claims: 31
 ECL Exemplary Claim: 1
 DRWN No Drawings
 LN.CNT 2848
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.
 AB A synergistic herbicidal mixture comprising

A) at least one 3-heterocyclyl-substituted benzoyl derivative of the
 formula I ##STR1##

in which the variables have the following meanings:

R.sup.1, R.sup.3 are hydrogen, halogen, alkyl, halogenalkyl, alkoxy,
 halogenalkoxy, alkylthio, alkylsulfinyl or alkylsulfonyl;

R.sup.2 is a heterocyclic radical selected from the group: thiazol-2-yl,
 thiazol-4-yl, thiazol-5-yl, isoxazol-3-yl, isoxazol-4-yl, isoxazol-5-yl,
 4,5-dihydroisoxazol-3-yl, 4,5-dihydroisoxazol-4-yl and
 4,5-dihydroisoxazol-5-yl, it being possible for these to be
 unsubstituted or mono- or polysubstituted by halogen, alkyl, alkoxy,
 haloalkyl, haloalkoxy or alkylthio;

R.sup.4 is hydrogen, halogen or alkyl;

R.sup.5 is alkyl;

R.sup.6 is hydrogen or alkyl;

or one of its environmentally compatible salts; and

B) a synergistically effective amount of at least one herbicidal
 compound from the group of the acetyl-CoA carboxylase inhibitors (ACC),
 acetolactate synthase inhibitors (ALS), amides, auxin herbicides, auxin
 transport inhibitors, carotenoid biosynthesis inhibitors,
 enolpyruvylshikimate-3-phosphate synthase inhibitors (ESPS), glutamine
 synthetase inhibitors, lipid biosynthesis inhibitors, mitosis
 inhibitors, protophorphyrinogen [sic] IX oxidase inhibitors,

photosynthesis inhibitors, synergists, growth substances, cell wall biosynthesis inhibitors and a variety of other herbicides.

Compositions comprising these mixtures, processes for the preparation of these compositions, and their use for controlling undesired plants.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

INCL INCLM: 504/138.000
 INCLS: 504/144.000; 504/148.000; 504/134.000; 504/136.000
 NCL NCLM: 504/138.000
 NCLS: 504/144.000; 504/148.000; 504/134.000; 504/136.000
 IC [7]
 ICM: A01N043-64
 ICS: A01N043-60; A01N043-36; A01N037-10; A01N047-28

CHEMICAL ABSTRACTS INDEXING COPYRIGHT 2004 ACS on STN

	PATENT	KIND	DATE
OS	CA 132:20093 * WO	9965314 A1	19991223
* CA Indexing for this record included			
CC	5-3 (Agrochemical Bioregulators)		
ST	synergism herbicide benzoylpyrazole derivs mixt		
IT	Herbicides (synergistic; compns. containing benzoylpyrazole derivs.)		
IT	252190-49-1	252190-50-4	252190-51-5
	252190-54-8	252190-55-9	252190-56-0
	252190-59-3	252190-60-6	252190-61-7
	252190-63-9	252190-64-0	252190-65-1
	252190-67-3	252190-68-4	252190-69-5
	252190-72-0	252190-73-1	252190-74-2
	252190-77-5	252190-78-6	252190-79-7
	252190-82-2	252190-83-3	252190-84-4
	252190-87-7	252190-88-8	252190-89-9
	252190-92-4	252190-93-5	252190-94-6
	252190-97-9	252190-98-0	252190-99-1
	252191-02-9	252191-03-0	252191-00-7
	(synergistic herbicide)		
IT	61-82-5D, 1H-1,2,4-Triazol-3-amine, mixts. with benzoylpyrazole derivs.		
	75-99-0D, mixts. with benzoylpyrazole derivs. 85-00-7D, mixts. with benzoylpyrazole derivs.		
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(synergistic herbicides)

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(synergistic herbicides)

IT 252190-61-7

(synergistic herbicide)

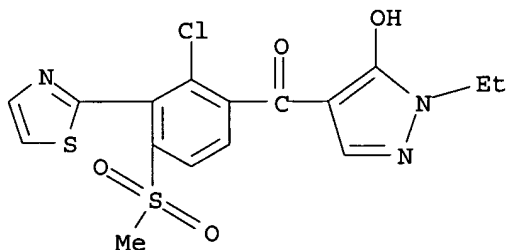
RN 252190-61-7 USPATFULL

CN 3-Pyridinecarboxamide, 2-[[[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]amino]sulfonyl]-N,N-dimethyl-, mixt. with
 [2-chloro-4-(methylsulfonyl)-3-(2-thiazolyl)phenyl] (1-ethyl-5-hydroxy-1H-pyrazol-4-yl)methanone (9CI) (CA INDEX NAME)

CM 1

CRN 182060-80-6

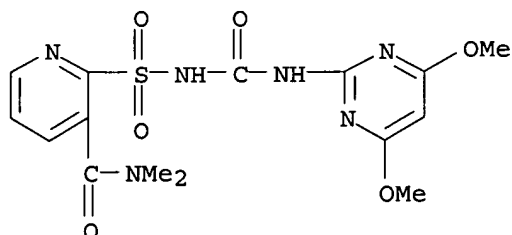
CMF C16 H14 Cl N3 O4 S2



CM 2

CRN 111991-09-4

CMF C15 H18 N6 O6 S



IT 252190-61-7 252190-66-2
(synergistic herbicide)

L17 ANSWER 2 OF 6 USPATFULL on STN

AN 2003:74363 USPATFULL

TI Herbicidal mixtures having a synergistic effect

IN Sievernich, Bernd, Bohl-Iggelheim, GERMANY, FEDERAL REPUBLIC OF
Landes, Max, Gonnheim, GERMANY, FEDERAL REPUBLIC OF
Kibler, Elmar, Hassloch, GERMANY, FEDERAL REPUBLIC OF
von Deyn, Wolfgang, Neustadt, GERMANY, FEDERAL REPUBLIC OF
Walter, Helmut, Obrigheim, GERMANY, FEDERAL REPUBLIC OF
Otten, Martina, Ludwigshafen, GERMANY, FEDERAL REPUBLIC OF
Westphalen, Karl-Otto, Speyer, GERMANY, FEDERAL REPUBLIC OF
Vantieghem, Herve, Stutensee, GERMANY, FEDERAL REPUBLIC OF
PA BASF Aktiengesellschaft, Ludwigshafen, GERMANY, FEDERAL REPUBLIC OF
(non-U.S. corporation)

PI US 6534444 B1 20030318

WO 9965314 19991223

AI US 2000-719429 20001212 (9)

WO 1999-EP4055 19990612

PRAI DE 1998-19826431 19980616

DT Utility

FS GRANTED

EXNAM Primary Examiner: Clardy, S. Mark

LREP Keil & Weinkauff

CLMN Number of Claims: 29

ECL Exemplary Claim: 1

DRWN 0 Drawing Figure(s); 0 Drawing Page(s)

LN.CNT 2291

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A synergistic herbicidal mixture comprising

A) at least one benzoyl compound of formula I ##STR1##

or a salt thereof wherein

R^{sup.1}, R^{sup.3} are hydrogen, halogen, alkyl, halogenalkyl, alkoxy, halogenalkoxy, alkylthio, alkylsulfinyl or alkylsulfonyl;

R^{sup.2} is optionally substituted thiazol-2-yl, thiazol-4-yl, thiazol-5-yl, isoxazol-3-yl, isoxazol-4-yl, isoxazol-5-yl, 4,5-dihydroisoxazol-3-yl, 4,5-dihydroisoxazol-4-yl or 4,5-dihydroisoxazol-5-yl;

R^{sup.4} is hydrogen, halogen or alkyl;

R^{sup.5} is alkyl;

R.sup.6 is hydrogen or alkyl; and,

B) a synergistically effective amount of at least one further herbicidal compound as defined in the specification,

compositions comprising these mixtures, processes for the preparation of these compositions, and their use for controlling undesired plants.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

INCL INCLM: 504/128.000
 INCLS: 504/132.000; 504/134.000; 504/136.000; 504/137.000; 504/139.000
 NCL NCLM: 504/128.000
 NCLS: 504/132.000; 504/134.000; 504/136.000; 504/137.000; 504/139.000
 IC [7]
 ICM: A01N043-56
 ICS: A01N043-78; A01N043-80
 EXF 504/128; 504/132; 504/134; 504/136; 504/137; 504/139
 ARTU 166

CHEMICAL ABSTRACTS INDEXING COPYRIGHT 2004 ACS on STN

	PATENT	KIND	DATE
OS	CA 132:20093 * WO	9965314 A1	19991223
* CA Indexing for this record included			
CC	5-3 (Agrochemical Bioregulators)		
ST	synergism herbicide benzoylpyrazole derivs mixt		
IT	Herbicides		
	(synergistic; compns. containing benzoylpyrazole derivs.)		
IT	252190-49-1	252190-50-4	252190-51-5
	252190-52-6	252190-53-7	252190-54-8
	252190-55-9	252190-56-0	252190-57-1
	252190-58-2	252190-59-3	252190-60-6
	252190-61-7	252190-62-8	252190-63-9
	252190-64-0	252190-65-1	252190-66-2
	252190-67-3	252190-68-4	252190-69-5
	252190-70-8	252190-71-9	252190-72-0
	252190-73-1	252190-74-2	252190-75-3
	252190-76-4	252190-77-5	252190-78-6
	252190-79-7	252190-80-0	252190-81-1
	252190-82-2	252190-83-3	252190-84-4
	252190-85-5	252190-86-6	252190-87-7
	252190-88-8	252190-89-9	252190-90-2
	252190-91-3	252190-92-4	252190-93-5
	252190-94-6	252190-95-7	252190-96-8
	252190-97-9	252190-98-0	252190-99-1
	252191-00-7	252191-01-8	252191-02-9
	252191-03-0		
	(synergistic herbicide)		
IT	61-82-5D, 1H-1,2,4-Triazol-3-amine, mixts. with benzoylpyrazole derivs.		
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	88-85-7D, mixts. with benzoylpyrazole derivs. 93-65-2D, mixts. with benzoylpyrazole derivs.		
	93-71-0D, mixts. with benzoylpyrazole derivs. 94-74-6D, mixts. with benzoylpyrazole derivs.		
	94-75-7D, mixts. with benzoylpyrazole derivs. 94-81-5D, mixts. with benzoylpyrazole derivs.		
	94-82-6D, mixts. with benzoylpyrazole derivs. 95-06-7D, mixts. with benzoylpyrazole derivs.		
	101-21-3D, mixts. with benzoylpyrazole derivs. 101-27-9D, mixts. with benzoylpyrazole derivs.		
	120-36-5D, mixts. with benzoylpyrazole derivs. 122-34-9D, mixts. with benzoylpyrazole derivs.		
	123-33-1D, mixts. with benzoylpyrazole derivs. 132-66-1D, mixts. with benzoylpyrazole derivs.		
	133-90-4D, mixts. with benzoylpyrazole derivs. 139-40-2D, mixts. with benzoylpyrazole derivs.		
	145-73-3D, mixts. with benzoylpyrazole derivs. 150-68-5D, mixts. with benzoylpyrazole derivs.		
	314-40-9D, mixts. with benzoylpyrazole derivs. 330-54-1D, mixts. with benzoylpyrazole derivs.		
	534-52-1D, mixts. with benzoylpyrazole derivs. 330-55-2D, mixts. with benzoylpyrazole derivs.		

Searched by Noble Jarrell

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(synergistic herbicides)

IT 94593-91-6D, mixts. with benzoylpyrazole derivs. 95480-33-4D, mixts.
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 Fluorobentranil, mixts. with benzoylpyrazole derivs. 192708-91-1D,
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(synergistic herbicides)

IT 252190-61-7

(synergistic herbicide)

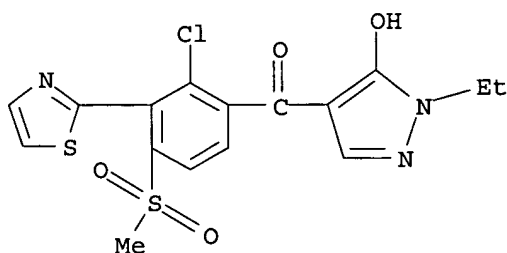
RN 252190-61-7 USPATFULL

CN 3-Pyridinecarboxamide, 2-[[[(4,6-dimethoxy-2-
 pyrimidinyl)amino]carbonyl]amino]sulfonyl]-N,N-dimethyl-, mixt. with
 [2-chloro-4-(methylsulfonyl)-3-(2-thiazolyl)phenyl] (1-ethyl-5-hydroxy-1H-
 pyrazol-4-yl)methanone (9CI) (CA INDEX NAME)

CM 1

CRN 182060-80-6

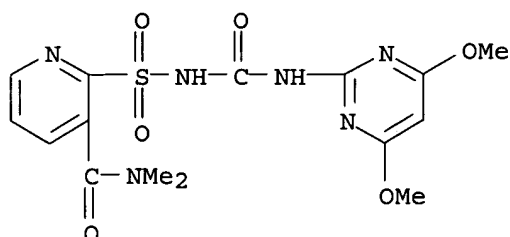
CMF C16 H14 Cl N3 O4 S2



CM 2

CRN 111991-09-4

CMF C15 H18 N6 O6 S



IT 252190-61-7 252190-66-2
(synergistic herbicide)

L17 ANSWER 3 OF 6 USPATFULL on STN

AN 2003:33432 USPATFULL

TI Herbicidal mixture containing a 3-heterocyclyl-substituted benzoyl derivative and an adjuvant

IN Bratz, Matthias, Limburgerhof, GERMANY, FEDERAL REPUBLIC OF
Berghaus, Rainer, Speyer, GERMANY, FEDERAL REPUBLIC OF
Otten, Martina, Ludwigshafen, GERMANY, FEDERAL REPUBLIC OF
Sievernich, Bernd, Bohl-Iggelheim, GERMANY, FEDERAL REPUBLIC OF
Kibler, Elmar, Hassloch, GERMANY, FEDERAL REPUBLIC OF

PA BASF Aktiengesellschaft, Ludwigshafen, GERMANY, FEDERAL REPUBLIC OF
(non-U.S. corporation)

PI US 6514910 B1 20030204

WO 2000053014 20000914

AI US 2001-914873 20010905 (9)

WO 2000-EP1641 20000228

PRAI DE 1999-19909833 19990305

DT Utility

FS GRANTED

EXNAM Primary Examiner: Clardy, S. Mark

LREP Keil & Weinkauff

CLMN Number of Claims: 18

ECL Exemplary Claim: 1

DRWN 0 Drawing Figure(s); 0 Drawing Page(s)

LN.CNT 550

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A herbicidal mixture, comprising

a) a herbicidally effective amount of a benzoyl compound of formula I
##STR1##

where:

R^{sup.1}, R^{sup.2} are halogen, C_{sub.1-6}-alkyl,
C_{sub.1-6}-alkylthio, C_{sub.1-6}-alkyl-sulfinyl or
C_{sub.1-6}-alkylsulfonyl;

R^{sup.3} is hydrogen, halogen, C_{sub.1-6}-alkyl;

X is 4,5-dihydroisoxazolyl which is unsubstituted or mono- or
polysubstituted by halogen, C_{sub.1-6}-alkyl, C_{sub.1-4}-
alkoxy, C_{sub.1-4}-haloalkyl, C_{sub.1-4}-haloalkoxy,
C_{sub.1-4}-alkylthio;

R^{sup.4} is a pyrazole of the formula II ##STR2##

which is attached in the 4-position and where

R.sup.5 is hydrogen,

R.sup.6 is methyl,

or an environmentally compatible salt thereof;

b) an adjuvant comprising

i) a C.sub.1-C.sub.5-alkyl C.sub.5-C.sub.22-alkanoate,

ii) a C.sub.10-C.sub.20-carboxylic acid,

iii) a partial phosphoric ester or a partial sulfuric ester of a monohydroxy-functional polyalkyl ether and

iv) optionally an alkyl polyoxyalkylene polyether,

wherein the compound of formula I and the adjuvat are present in synergistically effective amounts.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

INCL INCLM: 504/139.000
 INCLS: 504/266.000; 504/271.000

NCL NCLM: 504/139.000
 NCLS: 504/266.000; 504/271.000

IC [7]
 ICM: A01N043-78
 ICS: A01N043-80; A01N025-30

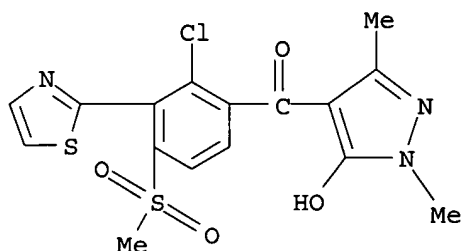
EXF 504/139; 504/266; 504/271

ARTU 166

CHEMICAL ABSTRACTS INDEXING COPYRIGHT 2004 ACS on STN

	PATENT	KIND	DATE
OS	CA 133:218862 * WO	0053014 A1	20000914
* CA Indexing for this record included			
CC	5-3 (Agrochemical Bioregulators)		
ST	herbicide benzoyl deriv activity enhancing adjuvant		
IT	Fatty acids, biological studies (C10-20; activity-enhancing adjuvants for benzoyl derivative herbicide)		
IT	Alcohols, biological studies (C9-11, ethoxylated; activity-enhancing adjuvant for benzoyl derivative herbicide)		
IT	Carboxylic acids, biological studies (alkyl esters; activity-enhancing adjuvants for benzoyl derivative herbicide)		
IT	Herbicides (compns. containing benzoyl derivative herbicides and activity-enhancing adjuvants)		
IT	Paraffin oils (emulsifier-containing, Atplus; activity-enhancing adjuvant for benzoyl derivative herbicide)		
IT	112-39-0, Methyl palmitate 112-62-9, Methyl oleate 112-80-1, Oleic acid, biological studies 26183-52-8, Lutensol ON 110 80449-87-2, Klearfac AA 270 107119-88-0, Lutensit A-EP 128088-09-5, Plurafac LF 700 201491-13-6, AG 6202		

(activity-enhancing adjuvant for benzoyl derivative herbicide)
 IT 182060-67-9 182060-76-0 210631-68-8
 (herbicidal composition containing activity-enhancing adjuvant and)
 IT 182060-67-9
 (herbicidal composition containing activity-enhancing adjuvant and)
 RN 182060-67-9 USPATFULL
 CN Methanone, [2-chloro-4-(methylsulfonyl)-3-(2-thiazolyl)phenyl] (5-hydroxy-1,3-dimethyl-1H-pyrazol-4-yl)- (9CI) (CA INDEX NAME)



IT 182060-67-9 182060-76-0
 (herbicidal composition containing activity-enhancing adjuvant and)
 L17 ANSWER 4 OF 6 USPATFULL on STN
 AN 2002:346987 USPATFULL
 TI Benzylidenepyrazolones, their preparation and use
 IN Rheinheimer, Joachim, Ludwigshafen, GERMANY, FEDERAL REPUBLIC OF
 Witschel, Matthias, Ludwigshafen, GERMANY, FEDERAL REPUBLIC OF
 Engel, Stefan, Worrstadt, GERMANY, FEDERAL REPUBLIC OF
 Baumann, Ernst, Dudenhofen, GERMANY, FEDERAL REPUBLIC OF
 von Deyn, Wolfgang, Neustadt, GERMANY, FEDERAL REPUBLIC OF
 Hill, Regina Luise, Harthausen, GERMANY, FEDERAL REPUBLIC OF
 Mayer, Guido, Neustadt, GERMANY, FEDERAL REPUBLIC OF
 Misslitz, Ulf, Neustadt, GERMANY, FEDERAL REPUBLIC OF
 Wagner, Oliver, Ludwigshafen, GERMANY, FEDERAL REPUBLIC OF
 Otten, Martina, Ludwigshafen, GERMANY, FEDERAL REPUBLIC OF
 Westphalen, Karl-Otto, Speyer, GERMANY, FEDERAL REPUBLIC OF
 Walter, Helmut, Obrigheim, GERMANY, FEDERAL REPUBLIC OF
 PA BASF Aktiengesellschaft, Ludwigshafen, GERMANY, FEDERAL REPUBLIC OF
 (non-U.S. corporation)
 PI US 6500950 B1 20021231
 AI US 2001-765626 20010122 (9)
 RLI Division of Ser. No. US 554184, now patented, Pat. No. US 6271179
 PRAI DE 1997-19751722 19971121
 DT Utility
 FS GRANTED
 EXNAM Primary Examiner: McKane, Joseph K.; Assistant Examiner: Saeed, Kamal
 LREP Keil & Weinkauff
 CLMN Number of Claims: 15
 ECL Exemplary Claim: 1
 DRWN 0 Drawing Figure(s); 0 Drawing Page(s)
 LN.CNT 1370
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.
 AB Benzylidenepyrazolones of the formula I, ##STR1##

where the substituents and the index n have the following meanings:

R.sup.1 is unsubstituted or substituted C.sub.1-C.sub.6-alkyl;

R.sup.2 is unsubstituted or substituted C.sub.1-C.sub.6-alkyl, unsubstituted or substituted C.sub.1-C.sub.6-alkoxy, halogen, nitro, cyano;

R.sup.3 is hydrogen, halogen, nitro, cyano, a group NR.sup.5R.sup.6, OCOR.sup.5, NR.sup.5COR.sup.6, CO.sub.2R.sup.5, --COSR.sup.5, --CONR.sup.5R.sup.6, C.sub.1-C.sub.4-alkoxyiminoalkyl, C.sub.1-C.sub.6-alkylcarbonyl, unsubstituted or substituted C.sub.1-C.sub.6-alkyl, unsubstituted or substituted C.sub.1-C.sub.6-alkoxy, unsubstituted or substituted C.sub.1-C.sub.6-alkylthio, unsubstituted or substituted C.sub.2-C.sub.6-alkenyl, unsubstituted or substituted C.sub.2-C.sub.6-alkynyl, unsubstituted or substituted phenyl, unsubstituted or substituted phenoxy, an unsubstituted or substituted 5- or 6-membered saturated or unsaturated heterocycle which may contain up to 4 nitrogen atoms and/or up to 2 oxygen or sulfur atoms as ring members;

R.sup.4 is C.sub.1-C.sub.6-alkyl, C.sub.1-C.sub.4-haloalkyl;

R.sup.3 and R.sup.4 form an optionally substituted saturated or unsaturated 2- or 3-membered bridge which may contain a sulfur atom which may be oxidized to the sulfoxide or sulfone;

R.sup.5 is hydrogen or unsubstituted or substituted C.sub.1-C.sub.6-alkyl;

R.sup.6 is unsubstituted or substituted C.sub.1-C.sub.6-alkyl;

R.sup.7 is hydrogen, C.sub.1-C.sub.6-alkyl or C.sub.1-C.sub.4-haloalkyl;

n is 0,1 or 2,

X is hydrogen, chlorine or bromine;

where the compounds claimed may be present both in the trans and in the cis form or as a mixture of these isomers, are described.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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INCL  INCLM: 544/140.000
      INCLS: 544/238.000; 544/335.000; 546/211.000; 546/275.400; 548/128.000;
            548/131.000; 548/143.000; 548/204.000; 548/235.000; 548/266.500;
            548/376.100
NCL   NCLM: 544/140.000
      NCLS: 544/238.000; 544/335.000; 546/211.000; 546/275.400; 548/128.000;
            548/131.000; 548/143.000; 548/204.000; 548/235.000; 548/266.200;
            548/376.100
IC    [7]
      ICM: C07D413-10
EXF   544/140; 544/238; 544/335; 546/211; 546/275.4; 548/128; 548/131;
      548/143; 548/204; 548/235; 548/266.5; 548/376.1
ARTU  166
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CHEMICAL ABSTRACTS INDEXING COPYRIGHT 2004 ACS on STN

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                PATENT      KIND    DATE
                -----
OS   CA 131:5255   * WO      9926930  A2   19990603
* CA Indexing for this record included
CC   28-8 (Heterocyclic Compounds (More Than One Hetero Atom))
      Section cross-reference(s): 5
```

Searched by Noble Jarrell

ST benzylidenepyrazolone prepn herbicide; pyrazolone benzylidene prepn herbicide; chlorodihydroisoxazolylmethylsulfonylphenylmethylenemethyldihydropyrazolone prepn herbicide

IT Herbicides
(preparation of benzylidenepyrazolones as herbicides)

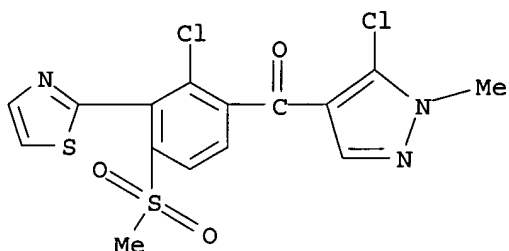
IT 225648-12-4P 225648-23-7P 225648-30-6P 225648-36-2P 225648-42-0P
225648-48-6P 225648-54-4P
(preparation of benzylidenepyrazolones as herbicides)

IT 210576-74-2
(preparation of benzylidenepyrazolones as herbicides)

IT **225648-48-6P**
(preparation of benzylidenepyrazolones as herbicides)

RN 225648-48-6 USPATFULL

CN Methanone, (5-chloro-1-methyl-1H-pyrazol-4-yl) [2-chloro-4-(methylsulfonyl)-3-(2-thiazolyl)phenyl]- (9CI) (CA INDEX NAME)



IT **225648-48-6P 225648-54-4P**
(preparation of benzylidenepyrazolones as herbicides)

L17 ANSWER 5 OF 6 USPATFULL on STN

AN 2001:125945 USPATFULL

TI Benzylidene pyrazolones, production and use thereof

IN Rheinheimer, Joachim, Ludwigshafen, Germany, Federal Republic of
Witschel, Matthias, Ludwigshafen, Germany, Federal Republic of
Engel, Stefan, Worrstadt, Germany, Federal Republic of
Baumann, Ernst, Dudenhofen, Germany, Federal Republic of
von Deyn, Wolfgang, Neustadt, Germany, Federal Republic of
Hill, Regina Luise, Harthausen, Germany, Federal Republic of
Mayer, Guido, Neustadt, Germany, Federal Republic of
Misslitz, Ulf, Neustadt, Germany, Federal Republic of
Wagner, Oliver, Ludwigshafen, Germany, Federal Republic of
Otten, Martina, Ludwigshafen, Germany, Federal Republic of
Westphalen, Karl-Otto, Speyer, Germany, Federal Republic of
Walter, Helmut, Obrigheim, Germany, Federal Republic of

PA BASF Aktiengesellschaft, Ludwigshafen, Germany, Federal Republic of
(non-U.S. corporation)

PI US 6271179 B1 20010807
WO 9926930 19990603

AI US 2000-554184 20000511 (9)
WO 1998-EP7099 19981121
20000511 PCT 371 date
20000511 PCT 102(e) date

PRAI DE 1997-19751722 19971121

DT Utility

FS GRANTED

EXNAM Primary Examiner: Ramsuer, Robert W.

LREP Keil & Weinkauff

CLMN Number of Claims: 21

ECL Exemplary Claim: 1
 DRWN No Drawings
 LN.CNT 1739
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.
 AB Benzylidenepyrazolones of the formula I, ##STR1##

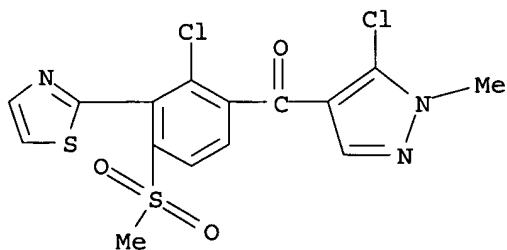
Useful as herbicides.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

INCL INCLM: 504/282.000
 INCLS: 544/140.000; 544/182.000; 544/216.000; 544/238.000; 544/333.000;
 544/405.000; 546/211.000; 546/276.100; 548/204.000; 548/236.000;
 548/240.000; 548/247.000; 548/265.800; 548/312.400; 548/364.100;
 548/365.100; 548/365.700; 548/366.100
 NCL NCLM: 504/282.000
 NCLS: 544/140.000; 544/182.000; 544/216.000; 544/238.000; 544/333.000;
 544/405.000; 546/211.000; 546/276.100; 548/204.000; 548/236.000;
 548/240.000; 548/247.000; 548/265.800; 548/312.400; 548/364.100;
 548/365.100; 548/365.700; 548/366.100
 IC [7]
 ICM: A01N043-56
 ICS: C07D231-20
 EXF 548/240; 548/366.1; 504/282
 ARTU 166

CHEMICAL ABSTRACTS INDEXING COPYRIGHT 2004 ACS on STN

	PATENT	KIND	DATE
OS	CA 131:5255	* WO	9926930 A2 19990603
* CA Indexing for this record included			
CC	28-8 (Heterocyclic Compounds (More Than One Hetero Atom)) Section cross-reference(s): 5		
ST	benzylidenepyrazolone prepn herbicide; pyrazolone benzylidene prepn herbicide; chlorodihydroisoxazolylmethylsulfonylphenylmethylenemethyldihydropyrazolone prepn herbicide		
IT	Herbicides (preparation of benzylidenepyrazolones as herbicides)		
IT	225648-12-4P	225648-23-7P	225648-30-6P 225648-36-2P 225648-42-0P 225648-48-6P 225648-54-4P (preparation of benzylidenepyrazolones as herbicides)
IT	210576-74-2	(preparation of benzylidenepyrazolones as herbicides)	
IT	225648-48-6P	(preparation of benzylidenepyrazolones as herbicides)	
RN	225648-48-6	USPATFULL	
CN	Methanone, (5-chloro-1-methyl-1H-pyrazol-4-yl)[2-chloro-4-(methylsulfonyl)-3-(2-thiazolyl)phenyl]- (9CI) (CA INDEX NAME)		



Searched by Noble Jarrell

IT 225648-48-6P 225648-54-4P

(preparation of benzyldenepyrazolones as herbicides)

L17 ANSWER 6 OF 6 USPATFULL on STN

AN 1998:154216 USPATFULL

TI Herbicidally active pyrazol-4-ylbenzoyl compounds

IN von Deyn, Wolfgang, Neustadt, Germany, Federal Republic of
 Hill, Regina Luise, Speyer, Germany, Federal Republic of
 Kardorff, Uwe, Mannheim, Germany, Federal Republic of
 Engel, Stefan, Idstein, Germany, Federal Republic of
 Otten, Martina, Ludwigshafen, Germany, Federal Republic of
 Vossen, Marcus, Mannheim, Germany, Federal Republic of
 Plath, Peter, Frankenthal, Germany, Federal Republic of
 Rang, Harald, Altrip, Germany, Federal Republic of
 Harreus, Albrecht, Ludwigshafen, Germany, Federal Republic of
 Konig, Hartmann, Heidelberg, Germany, Federal Republic of
 Walter, Helmut, Obrigheim, Germany, Federal Republic of
 Westphalen, Karl-Otto, Speyer, Germany, Federal Republic of
 Misslitz, Ulf, Neustadt, Germany, Federal Republic of

PA BASF Aktiengesellschaft, Ludwigshafen, Germany, Federal Republic of
 (non-U.S. corporation)

PI US 5846907 19981208

WO 9626206 19960829

AI US 1997-875664 19970730 (8)

WO 1996-EP635 19960214

19970730 PCT 371 date

19970730 PCT 102(e) date

PRAI DE 1995-19506572 19950224

DT Utility

FS Granted

EXNAM Primary Examiner: Higel, Floyd D.

LREP Keil & Weinkauff

CLMN Number of Claims: 8

ECL Exemplary Claim: 1,7

DRWN No Drawings

LN.CNT 1743

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Pyrazol-4-ylbenzoyl compounds of the formula I ##STR1## where Z is a 5-
 or 6-membered heterocyclic saturated or unsaturated radical, Q is a
 pyrazole ring and L and M are as defined in the specification, their use
 as herbicidal compounds and to processes for preparing the compounds.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

INCL INCLM: 504/221.000

INCLS: 564/234.000; 564/242.000; 564/244.000; 564/261.000; 564/263.000;
 564/265.000; 564/266.000; 564/270.000; 564/271.000; 564/274.000;
 564/283.000; 564/288.000; 564/289.000; 564/290.000; 564/291.000;
 564/294.000; 564/295.000; 544/053.000; 544/318.000; 544/335.000;
 546/174.000; 546/330.000; 548/128.000; 548/131.000; 548/136.000;
 548/141.000; 548/143.000; 548/204.000; 548/214.000; 548/236.000;
 548/247.000; 548/267.400; 548/370.100; 548/550.000; 548/551.000;
 548/364.100; 548/364.700; 548/365.700; 549/038.000; 549/039.000;
 549/077.000; 549/450.000; 549/451.000; 558/405.000

NCL NCLM: 504/221.000

NCLS: 504/234.000; 504/242.000; 504/244.000; 504/261.000; 504/263.000;
 504/265.000; 504/266.000; 504/270.000; 504/271.000; 504/274.000;
 504/283.000; 504/288.000; 504/289.000; 504/290.000; 504/291.000;
 504/294.000; 504/295.000; 544/053.000; 544/318.000; 544/335.000;
 546/174.000; 546/330.000; 548/128.000; 548/131.000; 548/136.000;

548/141.000; 548/143.000; 548/204.000; 548/214.000; 548/236.000;
 548/247.000; 548/267.400; 548/364.100; 548/364.700; 548/365.700;
 548/370.100; 548/550.000; 548/551.000; 549/038.000; 549/039.000;
 549/077.000; 549/450.000; 549/451.000; 558/405.000

IC [6]

ICM: A01N043-76

ICS: A01N043-80; C07D261-10; C07D263-30; C07D277-22; C07D307-38;

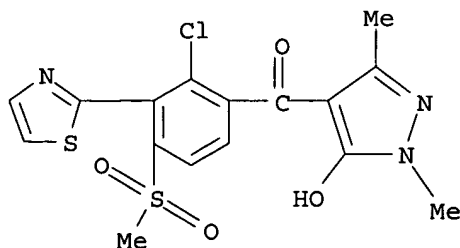
C07D521-00

EXF 548/364.1; 548/365; 548/7; 548/128; 548/131; 548/136; 548/141; 548/143;
 548/204; 548/214; 548/236; 548/247; 548/267.4; 548/370.1; 548/364.7;
 548/365.1; 548/550; 548/551; 549/38; 549/39; 549/77; 549/450; 549/451;
 558/405; 504/234; 504/242; 504/244; 504/261; 504/263; 504/265; 504/266;
 504/270; 504/271; 504/274; 504/283; 504/288; 504/289; 504/290; 504/291;
 504/294; 504/295; 544/53; 544/318; 544/335; 546/174; 546/330

ARTU 163

CHEMICAL ABSTRACTS INDEXING COPYRIGHT 2004 ACS on STN

	PATENT	KIND	DATE
OS	CA 125:247812 * WO	9626206 A1	19960829
* CA Indexing for this record included			
CC	28-8 (Heterocyclic Compounds (More Than One Hetero Atom))		
	Section cross-reference(s): 5		
ST	benzoylpyrazole prepn herbicide		
IT	Herbicides		
	(4-benzoylpyrazoles)		
IT	182060-43-1P	182060-47-5P	182060-50-0P
	182060-63-5P	182060-67-9P	182060-71-5P
	182060-80-6P		
	(preparation of 4-benzoylpyrazoles as herbicides)		
IT	151-00-8, Isobutyraldehyde oxime	5203-77-0, 1,3-Dimethyl-5-	
	hydroxypyrazole 82961-52-2	105917-80-4	121359-48-6,
	2-(Tributylstannyl)thiazole	182003-84-5	182061-44-5
	(preparation of 4-benzoylpyrazoles as herbicides)		
IT	106904-09-0P	120100-04-1P	120100-44-9P
	181997-73-9P	181997-74-0P	181997-75-1P
	181997-78-4P	181997-79-5P	181997-80-8P
	181997-83-1P	181997-84-2P	181997-85-3P
	181997-88-6P	181997-89-7P	181997-90-0P
	181997-93-3P	181997-94-4P	181997-95-5P
	181997-98-8P	181997-99-9P	181998-00-5P
	181998-01-6P	181998-02-7P	
	(preparation of 4-benzoylpyrazoles as herbicides)		
IT	182060-67-9P		
	(preparation of 4-benzoylpyrazoles as herbicides)		
RN	182060-67-9 USPATFULL		
CN	Methanone, [2-chloro-4-(methylsulfonyl)-3-(2-thiazolyl)phenyl] (5-hydroxy-1,3-dimethyl-1H-pyrazol-4-yl)- (9CI) (CA INDEX NAME)		



Searched by Noble Jarrell

IT 182060-67-9P 182060-76-0P 182060-80-6P
(preparation of 4-benzoylpyrazoles as herbicides)

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